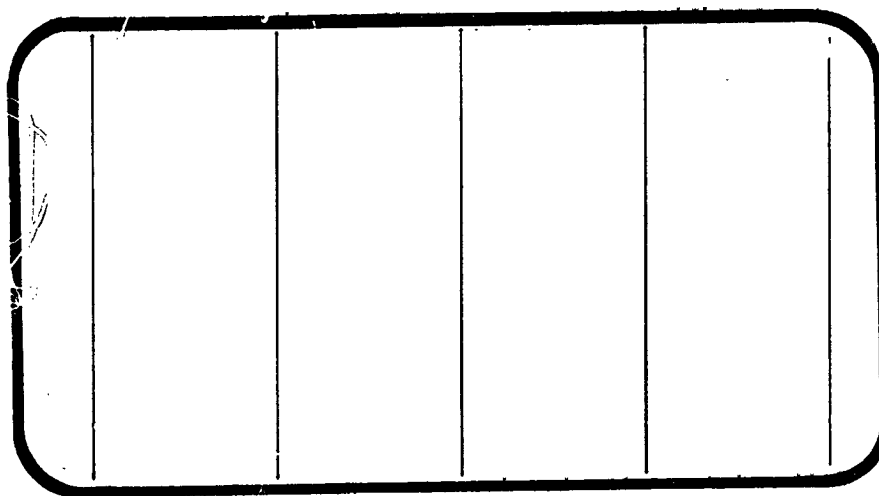


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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



(NASA-CR-134108) RESULTS OF TRANSONIC
WIND TUNNEL TESTS ON AN 0.015-SCALE
SPACE SHUTTLE MATED VEHICLE MODEL
(67-OTS) IN THE LaRC 8 FOOT (Chrysler
Corp.) 400 p HC \$23.00 CSCL 22B

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER
CORPORATION

July, 1974

DMS-DR-2118
NASA CR-134,108

RESULTS OF TRANSONIC WIND TUNNEL TESTS
ON AN 0.015-SCALE SPACE SHUTTLE MATED VEHICLE
MODEL (67-OTS) IN THE LaRC 8-FOOT TPT (IA41)

By

R. Hardin and R. Burrows
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: LaRC 8-Foot TPT 667
NASA Series No.: IA41
Test Date: 11 through 14 December 1973
Model No.: 67-OTS
Occupancy Hours: 64

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J. Y. Kelly

Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

RESULTS OF TRANSONIC WIND TUNNEL TESTS
ON AN 0.015-SCALE SPACE SHUTTLE MATED VEHICLE
MODEL (67-OTS) IN THE LaRC 8-FOOT TPT (IA41)

By R. Hardin and R. Burrows, Rockwell International Space Division

ABSTRACT

This report contains the results of wind tunnel tests of the NASA/Rockwell 0.015-scale Configuration 4 Mated Space Shuttle Vehicle.

The tests were conducted to obtain aerodynamic force data for Mach numbers from 0.60 to 1.20. Data were obtained for an alpha range of -10° to $+10^\circ$ ($\beta = 0^\circ$, $\beta = 5^\circ$) and beta range of -10° to $+10^\circ$ ($\alpha = 0^\circ$).

A complete model build-up was performed. Longitudinal and lateral-directional stability and control data were obtained for tank alone, tank plus SRB's, tank plus Orbiter, and mated configuration of tank + Orbiter + SRB's.

Single-component rudder hinge moment data were obtained at rudder deflections of 0° and -20° for each Mach number tested.

Plots of aerodynamic coefficients vs. Mach number are presented, using data from both test IA41 and tests LRC-UPWT-1056, 1073 (IA42A/B) for Mach numbers of 1.60 to 4.63. The model tested in IA42A/B was the same model as tested in IA41.

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Schedule of Coefficients Plotted:

- A) CAFT, CABT, CN, CLM vs ALPHA; CN vs CLM
- B) DCN/DA, DCLMDA, XAC/L, CAFAFO, CABAFO, CNALFO, CLMAFO vs Mach
- C) CY, CYN, CBL vs BETA; CY vs CYN
- D) DCY/DB, DCYNDB, DCBLDB, DCYNDB, DCY/DB, YAC/L vs Mach
- E) CAFDRO, CN/DRO, CLMDRO, CYDRO, CYNDRO, CBLDRO vs Mach
- F) CY/DRO, CYNDRO, CBLDRO vs Mach

NOMENCLATURE General

<u>SYMBOL</u>	<u>SADGAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient: $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
P		pressure; N/m ² , psf
q	Q(NSM) Q(Psf)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

A_b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
l_{REF} c	LREF	reference length or wing mean aerodynamic chord; m, ft
S_{REF}	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient; $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CIN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

NOMENCLATURE (Continued)
Additions to Standard List

<u>Symbol</u>	<u>SADSAC Symbol</u>	<u>Definition</u>
A_{bACPS}		attitude control propulsion system base area, ft^2 (total for two)
A_{bET}		external tank total base area, ft^2
A_{bOMS}		orbital maneuvering system base area (total for two), ft^2
A_{bORB}		total Orbiter base area, ft^2
A_{bSRB}		SRB shroud base area (minus projected nozzle base area), ft^2 (total for two)
A_{bSRBN}		SRB nozzle base area ft^2 (total for two)
A_{cET}		external tank cavity area, ft^2
A_{cORB}		Orbiter cavity area, ft^2
C_{ABAL}		balance chord force coefficient (uncorrected)
C_{AACPS}		attitude control maneuvering system base chord force coefficient
C_{AbET}		external tank base chord force coefficient (based on A_{bET})
C_{AbOMS}		Orbital maneuvering system base chord force coeffi- cient
C_{AbORB}		Orbiter base chord force coefficient (based on A_{bORB})

NOMENCLATURE (Continued) Additions to Standard List		
<u>Symbol</u>	<u>SADSAC Symbol</u>	<u>Definition</u>
C_{A_bSRB}		SRB shroud base chord force coefficient
C_{A_bSRBN}		SRB nozzle base chord force coefficient
$C^*_{A_bET}$		external tank base chord force coefficient (base on $A_{C_{ET}}$)
$C^*_{A_bORB}$		Orbiter base chord force coefficient (based on $A_{C_{ORB}}$ and Orbiter base pressure)
$C_{A_{C_{ET}}}$		external tank cavity chord force coefficient (corrected to base pressure)
$C_{A_{C_{ORB}}}$		Orbiter cavity chord force coefficient (corrected to base pressure)
$C^*_{A_{C_{ET}}}$		external tank cavity chord force coefficient (based on $A_{C_{ET}}$ and ET cavity pressures)
$C^*_{A_{C_{ORB}}}$		Orbiter cavity chord force coefficient (based on $A_{C_{ORB}}$ and Orbiter cavity pressures)
$C_{A_{f_t}}$	CAFT	mated vehicle total forebody chord force coefficient
$C_{A_{b_t}}$	CABT	mated vehicle total base chord force coefficient
$C_p()$	CP	base and cavity pressure coefficient
M_o		tunnel freestream Mach number
OTS		Orbiter + tank + SRB's
MRP(x_T, y_T, z_T)		moment reference point is in ET coordinate system

NOMENCLATURE (Continued)
Additions to Standard List

<u>Symbol</u>	<u>SADSAC Symbol</u>	<u>Definition</u>
$P()$		model pressure denoted by subscript
P_o		tunnel freestream static pressure, psia
P_T		tunnel freestream total pressure, psia
RN		tunnel Reynolds number per foot
S_{REF}	SREF	reference area, ft^2
T_o		tunnel freestream static temperature, $^{\circ}R$
T_T		tunnel freestream total temperature, $^{\circ}R$
$WF()$		model pressure weighting factor, either 1 or 0
d_{C_m}/d_{C_N}	XAC/L	longitudinal static stability derivative, pitching moment coefficient alpha derivative divided by normal force coefficient alpha derivative, $(-1)(d_{C_m}/d_{C_N})$, body axis system
d_{C_m}/d_{C_y}	YAC/L	lateral static stability derivative, yawing moment coefficient beta derivative divided by the side force coefficient beta derivative, $(-1)(d_{C_m}/d_{C_y})$, body axis system.
X_o		orbiter longitudinal station, inches
X_T		tank longitudinal station, inches
Y_o		orbiter spanwise station, inches
Y_T		tank spanwise station, inches
δ_e	ELEVON	elevon deflection $(\delta_{eL} + \delta_{eR})/2$, degrees
δ_r	RUDDER	rudder deflection, degrees
δ_{SB}	SPDBRK	speedbrake deflection, degrees
δ_{BF}	BDFLAP	body flap deflection, degrees

NOMENCLATURE (Concluded)
Additions to Standard List

<u>Symbol</u>	<u>SADSAC Symbol</u>	<u>Definition</u>
C_{N_α}	DCN/DA	derivative of normal force coefficient with respect to alpha, (alpha = $\pm 5^\circ$), per degree
C_{m_α}	DCLMDA	derivative of pitching moment coefficient with respect to alpha, (alpha = $\pm 5^\circ$), per degree
$dC_n/d\beta$	DCYNDB	yawing moment coefficient gradient with respect to sideslip angle
$dC_l/d\beta$	DCBLDB	rolling moment coefficient gradient with respect to sideslip angle
$dC_y/d\beta$	DCY/DB	side force coefficient gradient with respect to sideslip angle
$(C_{A_{ft}})_{\alpha=0}$	CAFAFO	forebody chord force coefficient at zero degrees angle of attack
$(C_{A_{bt}})_{\alpha=0}$	CABAFO	base chord force coefficient at zero degrees angle of attack
$(C_N)_{\alpha=0}$	CNALFO	normal force coefficient at zero degrees angle of attack
$(C_m)_{\alpha=0}$	CLMAFO	pitching moment coefficient at zero degrees angle of attack
$(C_{A_{ft} \delta_R})_{\alpha=0}$	CAFDRO	forebody chord forces coefficient gradient with rudder deflection at zero alpha
$(C_{N\delta_R})_{\alpha=0}$	CN/DRO	normal force coefficient gradient with rudder deflection at zero alpha
$(C_{m\delta_R})_{\alpha=0}$	CLMDRO	pitching moment coefficient gradient with rudder deflection at zero alpha
$(C_{y\delta_R})_{\alpha=0}$	CYDRO	side force coefficient gradient with rudder deflection at zero alpha
$(C_{N\delta_R})_{\alpha=0}$	CYNDRO	yawing moment coefficient gradient with rudder deflection at zero alpha
$(C_{l\delta_R})_{\alpha=0}$	CBLDRO	rolling moment coefficient gradient with rudder deflection at zero alpha
	DLTRUD	difference between rudder deflection of two data sets, degrees

CONFIGURATIONS INVESTIGATED

The model (67-OTS) tested was a mated shuttle vehicle that had build-up capability. Model build-up was performed with the following configuration combinations: tank alone, tank + SRB's, tank + Orbiter, and tank + SRB's + Orbiter.

The Orbiter was a cast aluminum representation of model 49-0; an 0.015-scale configuration 140A/B Orbiter. The Orbiter rudder had a single-component strain-gaged beam at the hingeline and could be set at 0° and -20° . The Orbiter bodyflap had settings of -11.7° , 0° , and $+25^\circ$. Orbiter elevons could be set at $+15^\circ$, 0° , -40° .

The internal balance could be mounted in either the tank or the Orbiter. The tank and SRB's were made of aluminum and all attach hardware and protuberances were simulated for the tank, SRB's, and Orbiter.

The following table summarizes the model configurations and their corresponding nomenclature:

Tab Data Configuration	Description
O ₁	B ₂₆ , C ₉ , W ₁₁₆ , E ₂₆ , F ₇ , M ₇ , N ₇₂ , R ₅ , V ₈ , X ₂₅
T ₁	T ₁₂ (Baseline), X ₂₅
T ₂	T ₁₃ (Baseline with 1208 inch radius tangent ogive nose)
T ₄	T ₁₈ (Shortened Baseline)
S ₁	S ₁₂ (Baseline), N ₄₁ , X ₂₅
P ₁	PT ₁ , PT ₂ , PT ₃ , AT ₅ , AT ₁₂ , AT ₁₃ , AT ₁₄ AT ₉ , FL ₁ , FL ₂

P ₂	PS ₁ , PS ₂ , PS ₃
P ₄	PT ₂ , PT ₃ , PT ₅ , AT ₅ , AT ₁₂ , AT ₁₃ , AT ₁₄ , AT ₉ , FL ₁ , FL ₂
P ₆	PT ₂ , PT ₃ , PT ₇ , AT ₅ , AT ₁₂ , AT ₁₃ , AT ₁₄ , AT ₉ , FL ₁ , FL ₂
FR ₁	FR ₁ (Umbilical door fairing)

The model base was instrumented with pressure orifices as shown in figure 2. These pressures were manifolded as shown below:

<u>i for C_p_i in Data</u>	<u>Reduction (Manifold no.)</u>	<u>Location</u>	<u>Tap No. (Figure 2L)</u>
1		orbiter cavity	16, 17 (BAL. IN ORB.)
1		tank cavity	18, 19 (BAL. IN TANK)
2		orbiter base	1, 2, 3, 4
3		tank base	7, 8, 9, 10, 11, 12
4		SRB nozzle base	15
5		SRB shroud base	13, 14
6		OMS & ACPS base	5, 6

TEST FACILITY DESCRIPTION

NASA/Langley Research Center 8-Foot Transonic Pressure Tunnel is an air-medium facility capable of attaining continuously variable Mach numbers from 0.20 to 1.30. It is a single-return, closed-circuit tunnel having controlled stagnation temperature, total pressure, and dew-point temperature. The test section is 7.1 feet square. Reynolds numbers are variable from $0.30 \times 10^6/\text{foot}$ to $7.00 \times 10^6/\text{foot}$, depending on Mach number and tunnel total-pressure limitations. Models are supported in the test section by a sting-sector system, but wall-mounting is possible. Schlieren photography is available for flow and shock-wave studies.

DATA REDUCTION

Vehicle Total Chord Force Coefficient (C_{A_T}) was computed using the following equations:

$$C_{A_T} = C_{A_{BAL}} + C_{A_{CORB}} + C_{A_{CET}} \quad (1)$$

Where:

$$C_{A_{CORB}} = -C_{A_{CORB}}^* + C_{A_{b_{ORB}}}^* \quad (2)$$

$$C_{A_{CET}} = -C_{A_{CET}}^* + C_{A_{b_{ET}}}^* \quad (3)$$

and: (for balance mounted in Orbiter)

$$C_{A_{CORB}}^* = -C_{P(1)} (A_{CORB} / S_{REF})^{WF(1)} \quad (4)$$

$$C_{A_{b_{ORB}}}^* = -C_{P(2)} (A_{CORB} / S_{REF})^{WF(2)} \quad (5)$$

(for balance mounted in Tank)

$$C_{A_{CET}}^* = -C_{P(1)} (A_{CET} / S_{REF})^{WF(1)} \quad (6)$$

$$C_{A_{b_{ET}}}^* = -C_{P(3)} (A_{CET} / S_{REF})^{WF(3)} \quad (7)$$

Forebody Chord Force Coefficient ($C_{A_{ft}}$) was computed as follows:

$$C_{A_{ft}} = C_{A_T} - C_{A_{b_{ORB}}} - C_{A_{b_{OMS}}} - C_{A_{b_{ACPS}}} - C_{A_{b_{SRB}}} - C_{A_{b_{SRBN}}} - C_{A_{b_{ET}}} \quad (8)$$

Where:

$$C_{A_{b_{ORB}}} = - C_{P(2)} (A_{b_{ORB}} / S_{REF})^{WF(2)} \quad (9)$$

$$C_{A_{b_{OMS}}} = - C_{P(6)} (A_{b_{OMS}} / S_{REF})^{WF(6)} \quad (10)$$

$$C_{A_{b_{ACPS}}} = - C_{P(6)} (A_{b_{ACPS}} / S_{REF})^{WF(6)} \quad (11)$$

$$C_{A_{b_{SRB}}} = - C_{P(5)} (A_{b_{SRB}} / S_{REF})^{WF(5)} \quad (12)$$

$$C_{A_{b_{SRBN}}} = - C_{P(4)} (A_{b_{SRBN}} / S_{REF})^{WF(4)} \quad (13)$$

$$C_{A_{b_{ET}}} = - C_{P(3)} (A_{b_{ET}} / S_{REF})^{WF(3)} \quad (14)$$

$$C_{A_{b_T}} = C_{A_T} - C_{A_{f_t}} \quad (15)$$

Weighting factor (WF) values are presented in table IV.

The following reference dimensions and constants were used:

	<u>full scale</u>	<u>model scale</u>
$A_{b_{ACPS}}$	37.778 ft ²	0.0085 ft ²
$A_{b_{ET}}$	572.555 ft ²	0.1288 ft ²
$A_{b_{OMS}}$	52.00 ft ²	0.0117 ft ²
$A_{b_{ORB}}$	337.778 ft ²	0.076 ft ²
$A_{b_{SRB}}$	184.332 ft ²	0.0414 ft ²
$A_{b_{SRBN}}$	217.792 ft ²	0.0490 ft ²

A_{CET}	--	0.0218 ft ²
A_{CORB}	--	0.0340 ft ²
L_{REF} b_{REF}	1290.3 in	19.355 in
MRP x_T	976 in	14.640 in
	y_T	0 in
	z_T	6.0 in
S_{REF}	2690 ft ²	0.6053 ft ²
S_r	100.15 ft ²	0.0225 ft ²
\bar{C}_r	73.7 in	1.106 in

REFERENCES

Model Drawings

SSA-01166 "Orbiter, ET, and SRB Assembly"
SSA-01167 "ET Assembly Details"
SSA-01168 "SRB Assembly Details"
SSA-01169 "UPWT Installation Drawing"
SSA-01170 "8-Foot TPT Installation Drawing"
SSA-01171 "Orbiter Assembly Drawing"

Rockwell Lines Drawing

VL70-000140A/B "Orbiter Configuration Control Drawing MCR 200 R₃
Baseline dated 7/2/73"
VL70-000145A "Lines Control Vertical Tail Baseline MCR 200
R₁, dated 5/16/73"
VL72-000088E "Shuttle Configuration Control MCR 200 Baseline
R₄ dated 8/16/73"
VL77-000036A "SRB Configuration Control MCR 200 R₁, dated 5/16/73"
VL78-000031A "Thermal Protection - External Tank MCR 200 Baseline
Dated 4/11/73"
VL78-000041B "External Tank Configuration Control MCR 200 R₂,
dated 6/11/73"
VL78-000050 "Fairing/ET/Orbiter Attach Hardware"

Pretest Report

SD73-SH-0263 "Pretest Information for the 0.015-Scale Space Shuttle Mated
Vehicle Tests IA41 and IA42 in the LRC UPWT and LRC 8-Foot TPT."

REFERENCES (Concluded)

Reports

- DMS-DR-2119 "Results of Supersonic Wind Tunnel Tests on an 0.015-Scale Space Shuttle Mated Vehicle Model (67-OTS) in the LaRC Unitary Plan Wind Tunnel (IA42)," by Ron Hardin & R. Burrows.
- DMS-DR-2120 "Wind Tunnel Tests of an 0.015 Scale Configuration 140A/B Space Shuttle Orbiter Model (67-0) in the NASA/LaRC 8-Foot TPT to Obtain Transonic Aerodynamic Force Data (OA-106)," by R. Burrows.

TABLE I.

[illegible]

TABLE II

[illegible]

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT: Attach Structure AT₅

GENERAL DESCRIPTION: Forward Orbiter/ET Attach Structure (2 member structure)

Model Scale: 0.015

DRAWING NO. VL72-000088D

DIMENSION:	MEMBER	FULL SCALE	MODEL SCALE
	#1		
	X _O	<u>391</u>	<u>5.865</u>
	Y _O	<u>0</u>	<u>0</u>
	Z _O	<u>LWR ML</u>	<u>LWR ML</u>
	X _T	<u>1132</u>	<u>16.980</u>
	Y _T	<u>44</u>	<u>0.66</u>
	Z _T	<u>562</u>	<u>8.43</u>
	#2		
	X _O	<u>391</u>	<u>5.865</u>
	Y _O	<u>0</u>	<u>0</u>
	Z _O	<u>LWR ML</u>	<u>LWR ML</u>
	X _T	<u>1132</u>	<u>16.980</u>
	Y _T	<u>-44</u>	<u>-.66</u>
	Z _T	<u>562</u>	<u>8.43</u>
Diameter of Members:		<u>10.2</u>	<u>0.153</u>

TABLE III. - Continued.

MODEL COMPONENT: Attach Structure AT9GENERAL DESCRIPTION: Aft SRB/ET attach structure (3 member structure to each SRB)

Model Scale: 0.015

DRAWING NO: VL72-000106

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X _B	<u>1515</u>	<u>22.725</u>
		Y _B	<u>± 56</u>	<u>± .840</u>
		Z _B	<u>50</u>	<u>.750</u>
		X _T	<u>2058</u>	<u>30.870</u>
		Y _T	<u>± 158</u>	<u>2.370</u>
		Z _T	<u>450</u>	<u>6.75</u>
	#2	X _B	<u>1515</u>	<u>22.725</u>
		Y _B	<u>± 76</u>	<u>± 1.140</u>
		Z _B	<u>18</u>	<u>.270</u>
		X _T	<u>2058</u>	<u>30.870</u>
		Y _T	<u>160</u>	<u>2.400</u>
		Z _T	<u>445</u>	<u>6.675</u>
	#3	X _B	<u>1515</u>	<u>22.725</u>
		Y _B	<u>± 56</u>	<u>± .840</u>
		Z _B	<u>- 50</u>	<u>- .750</u>
		X _T	<u>2058</u>	<u>30.870</u>
		Y _T	<u>± 158</u>	<u>± 2.370</u>
		Z _T	<u>350</u>	<u>5.250</u>
Diameter of Members:			6.02	0.093

TABLE III. - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT₁₂GENERAL DESCRIPTION: Left rear orbiter/ET attach structure (2
member structure)MODEL SCALE: 0.015DRAWING NO.: VL78-000050

DIMENSIONS: - INCHES	MEMBER	FULL SCALE	MODEL SCALE
	#1		
	X _O	<u>1303</u>	<u>19.545</u>
	Y _O	<u>- 96</u>	<u>- 1.440</u>
	Z _O	<u>258</u>	<u>3.870</u>
	X _T	<u>1859</u>	<u>27.875</u>
	Y _T	<u>- 115</u>	<u>- 1.725</u>
	Z _T	<u>510</u>	<u>7.650</u>
	DIAMETER	<u>12.0</u>	<u>0.180</u>
	#2		
	X _O	<u>1317</u>	<u>19.755</u>
	Y _O	<u>- 96</u>	<u>- 1.440</u>
	Z _O	<u>258</u>	<u>3.870</u>
	X _T	<u>2058</u>	<u>30.870</u>
	Y _T	<u>- 115</u>	<u>- 1.725</u>
	Z _T	<u>510</u>	<u>7.650</u>
	DIAMETER	<u>8.0</u>	<u>0.120</u>

TABLE III. - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - A^m₁₃GENERAL DESCRIPTION: Right rear orbiter/ET attach structure (3 member structure)

MODEL SCALE: 0.015

DRAWING NO.: VL78-000050

DIMENSIONS: - INCHES	Member		FULL SCALE	MODEL SCALE
	#1	X _O	1313	19.695
		Y _O	+ 96	1.44
		Z _O	258	3.870
		X _T	1859	27.885
		Y _T	115	1.725
		Z _T	510	7.650
		DIAMETER	12.0	0.180
	#2	X _O	1317	19.755
		Y _O	+ 96	1.440
		Z _O	258	3.870
		X _T	2058	30.870
		Y _T	115	1.725
		Z _T	510	7.650
		DIAMETER	8.0	0.120
	#3	X _O	1317	19.755
		Y _O	96	1.440
		Z _O	258	3.870
		X _T	2058	30.870
		Y _T	0	0
		Z _T	565	8.490
		DIAMETER	8.0	0.120

TABLE III. - Continued.

MODEL COMPONENT: Attach Structure - AT₁₄

GENERAL DESCRIPTION: Forward SRB/ET attach structure

Model Scale: 0.015

DRAWING NO: VL77-000051A

DIMENSION: - INCHES	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
X _B	<u>404</u>	<u>6.060</u>
Y _B	<u>± 177</u>	<u>2.655</u>
Z _B	<u>0</u>	<u>0</u>
X _T	<u>947</u>	<u>14.205</u>
Y _T	<u>± 167</u>	<u>2.505</u>
Z _T	<u>400</u>	<u>6.000</u>

TABLE III. - Continued.

MODEL COMPONENT: BODY - (B₂₆)GENERAL DESCRIPTION: Orbiter Fuselage Configuration 140 A/BNOTE: B₂₆ identical to B₂₄ except underside of fuselage refaired to accept W₁₁₆.Model Scale = 0.015DRAWING NUMBER: VL70-000193
VL70-000140A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length (Body Fwd Sta X ₀ = 235) - in.	<u>1293.3</u>	<u>19.400</u>
Max. Width (at X ₀ = 1520) - in.	<u>262.0</u>	<u>3.93</u>
Max. Depth (at X ₀ = 1464) - in.	<u>250.0</u>	<u>3.75</u>
Fineness Ratio	<u>0.26357</u>	<u>0.26357</u>
Area - ft ²		
Max. Cross-Sectional	<u>340.88462</u>	<u>0.07670</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

MODEL DIMENSIONAL DATA

MODEL COMPONENT : Canopy (C_Q)

GENERAL DESCRIPTION : Configuration 140 A/B Orbiter Fuselage

Model Scale = 0.015

Model Drawing No. SS-A0014.7

DRAWING NUMBER : VL70-000140A
VL70-000143A

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_0=434.643$ to 670)	<u>235.357</u>	<u>3.530</u>
Max Width (@ $X_0=513.127$)	<u>152.412</u>	<u>2.286</u>
Max Depth (@ $X_0=485.0$)	<u>25.000</u>	<u>0.375</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

MODEL COMPONENT: ELEVON - (E₂₆)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter ElevonNOTE: VL70-000200 data for (1) of (2) sides. Identical to E₂₅ except
airfoil thicknessModel Scale = 0.015Model Drawings No. SS-A00148DRAWING NUMBER:VL7C-000200
VL70-000140 BDIMENSIONS:FULL-SCALEMODEL SCALE

Area	<u>223.5814</u>	<u>0.0503</u>
Span (equivalent)	<u>368.34</u>	<u>5.525</u>
Inb'd equivalent chord	<u>119.623</u>	<u>1.794</u>
Outb'd equivalent chord	<u>55.1922</u>	<u>0.828</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.056</u>	<u>-10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line)	<u>851.1502</u>	<u>0.00287</u>

TABLE III. - Continued.

MODEL COMPONENT: Body Flap - (F₇)

GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Body Flap

NOTE: Body flap has variable centerline deflection of +13.75° and
-14.25° from null position. Hinge line located at $X_0 = 1528.3$,

$Z_0 = 284.3$

Model Drawing No. SS-A00147

Model Scale = 0.015

DRAWING NUMBER

VL70-000140A, VL70-000145

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length ($X_0 = 1520$ to $X_0 = 1613$) - IN.	<u>93.000</u>	<u>1.395</u>
Max Width - IN.	<u>262.000</u>	<u>3.930</u>
Max Depth ($X_0 = 1520$) - IN.	<u>23.000</u>	<u>0.345</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ²	<u> </u>	<u> </u>
Max Cross-Sectional	<u> </u>	<u> </u>
Planform	<u>150.5250</u>	<u>0.0339</u>
Wetted	<u> </u>	<u> </u>
Base	<u>41.84722</u>	<u>0.00941</u>

TABLE III. - Continued.

MODEL COMPONENT Feed line FL₁

DESCRIPTION: LOX feed line between ET and orbiter

MODEL SCALE: 0.015

DRAWING NO: VL78-000050

DIMENSIONS: - INCHES	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
L_1 at: X_T	<u>2063.5</u>	<u>30.953</u>
Y_T	<u>70</u>	<u>1.053</u>
X_0	<u>1330.5</u>	<u>19.958</u>
	<u>70</u>	<u>1.053</u>
Diameter	<u>18.5</u>	<u>.278</u>

TABLE III. - Continued.

MODEL COMPONENT: Feed line FL₂
 DESCRIPTION: LH₂ feed line between ET and orbiter
 MODEL SCALE: 0.015
 DRAWING NO.: VL78-000050

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
ϕ at X_T	<u>2063.5</u>	<u>30.953</u>
Y_T	<u>-70</u>	<u>-1.053</u>
X_O	<u>1330.5</u>	<u>19.958</u>
Y_O	<u>-70</u>	<u>-1.053</u>
Diameter	<u>18.5</u>	<u>.278</u>

TABLE III. - Continued.

MODEL COMPONENT: Fairing FR₁

DESCRIPTION: Umbilical door fairing around LOX and LH₂ feedlines between orbiter and ET. Leading edge of fairing attaches to bottom of orbiter.

MODEL SCALE: 0.015

DRAWING NO.: VL78-000050

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X ₀	<u>1214</u>	<u>18.210</u>
Length	<u>154</u>	<u>2.310</u>
Width	<u>226</u>	<u>3.390</u>

TABLE III. - Continued.

MODEL COMPONENT : OMS Pod (M7)

GENERAL DESCRIPTION : Configuration 140 A/B Orbiter OMS-Pod

Model Scale = 0.015

Model Drawing No. SS-A00147

DRAWING NUMBER : VL70-000140A
VL70-000145

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length(OMS Fwd Sta $X_0=1233.0$) -IN.	<u>327.000</u>	<u>4.905</u>
Max Width (@ $X_0=1450.0$) - IN.	<u>94.5</u>	<u>1.418</u>
Max Depth (@ $X_0=1493.0$) - IN.	<u>109.000</u>	<u>1.635</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

MODEL COMPONENT: NOZZLES - N41GENERAL DESCRIPTION: Configuration 4 BSRM NozzlesMODEL SCALE = 0.015DRAWING NO. VL72-000088E
VL77-000036A

<u>DIMENSIONS</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Mach No. _____		
Length ~ in.		
Gimbal Point to Exit Plane	<u>141.3</u>	<u>2.120</u>
Throat to Exit Plane	<u> </u>	<u> </u>
Diameter ~ in.		
Exit	<u>141.3</u>	<u>2.120</u>
Throat	<u> </u>	<u> </u>
Inlet	<u> </u>	<u> </u>
Area ~ ft ² .		
Exit	<u>108.89 95</u>	<u>0.0245</u>
Throat	<u> </u>	<u> </u>
Gimbal Point (station) ~ in.		
X	<u>1796.15</u>	<u>26.942</u>
Y	<u>+243.0</u>	<u>+3.645</u>
Z	<u>400.0</u>	<u>6.0</u>
Null Position ~ deg.		
Pitch	<u>0°</u>	<u>0°</u>
Yaw	<u>0°</u>	<u>0°</u>
FS of Nozzle Exit Plane (X _T) IN.	<u>24.84</u>	<u>37.260</u>

TABLE III. - Continued.

MODEL COMPONENT: NOZZLES - (N 72)GENERAL DESCRIPTION: Configuration L40 A/B Orbiter OMS Nozzle

The pitch null was mounted to model at 30° but it should have been 15° 49' according
to the line drawing VL70-000140A.

MODEL SCALE = 0.015Model Drawing No. SS-A00147DRAWING NO. VL70-000140ADIMENSIONSFULL SCALEMODEL SCALE

Mach No. _____

Length ~ in.

Gimbal Point to Exit Plane

Throat to Exit Plane

Diameter ~ in.

Exit

Throat

Inlet

Area ~ ft².

Exit

Throat

Gimbal Point (station) ~ in.

X

Y

Z

Null Position ~ deg.

Pitch

Yaw

1510.0± 88.0492.030°12° 17'22.771.327.3830°12° 17'

TABLE III. - Continued.

MODEL COMPONENT: SRB Protuberance PS1

DESCRIPTION: Electrical tunnel fairing on top of each SRB

MODEL SCALE: 0.015

DRAWING NO: None

DIMENSION: (Data for 1 of 2)

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X_B	<u>467</u>	<u>7.001</u>
E of tunnel Y_B	<u>0</u>	<u>0</u>
Trailing edge at X_B	<u>1820</u>	<u>27.30</u>
Height	<u>3</u>	<u>.045</u>
Width	<u>6</u>	<u>.090</u>
\angle_{LE} , deg.	<u>72</u>	<u>72</u>

TABLE III. - Continued.

MODEL COMPONENT: SRB Protuberance PS₂

DESCRIPTION: SRB/ET attach ring

MODEL SCALE: 0.015

DRAWING NO.: VL77-00036A

DIMENSIONS: (Data for 1 of 2)

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
C at X_B	<u>1515</u>	<u>22.725</u>
Width	<u>10</u>	<u>.15</u>
Height	<u>10</u>	<u>.15</u>

TABLE III. - Continued.

MODEL COMPONENT: SRB Protuberance PS₁

DESCRIPTION: Separation rocket fairing on each SRB nozzle shroud located
30° inboard from top centerline.

MODEL SCALE: 0.015

DRAWING NO.: VL77-000036A

DIMENSIONS: (Data for 1 of 2)

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X_B	<u>1796</u>	<u>26.940</u>
Trailing edge at X_B	<u>1889</u>	<u>28.335</u>

Radial location is 30° inboard from top centerline.

TABLE III. - Continued.

MODEL COMPONENT: ET Protuberance PT₁

DESCRIPTION: LOX Vent Line Fairing on Tank T₁₂ Nose

MODEL SCALE: .015

DRAWING NO. VL78-000031A

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
DIMENSIONS: Leading edge at X _T	<u>321</u>	<u>4.815</u>
Y _T	<u>0</u>	<u>0</u>
Trailing edge at X _T	<u>947</u>	<u>14.205</u>
Y _T	<u>70</u>	<u>1.053</u>

TABLE III. - Continued.

MODEL COMPONENT: ET Protuberance PT₂

DESCRIPTION: LOX feed lines on vehicle 4 tank secured to tank by brackets
with 30-inch spacing (total of 22 brackets)

MODEL SCALE: 0.015

DRAWING NO. VL78-000031A

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
DIMENSIONS: Leading edge at X_T	<u>947</u>	<u>14.205</u>
Y_T	<u>70</u>	<u>1.053</u>
Trailing edge at X_T	<u>1330</u>	<u>19.950</u>
Y_T	<u>70</u>	<u>1.053</u>
Bracket spacing from $X_T = 997$	<u>50</u>	<u>.85</u>
Centerline of LOX feedline located radially at ϕ	<u>23.5°</u>	

TABLE III. - Continued.

MODEL COMPONENT: ET Protuberance PT₃
 DESCRIPTION: LH₂ vent line on vehicle 4 tank secured to tank by brackets
with 30-inch spacing (total of 22 brackets)
 MODEL SCALE: 0.015
 DRAWING NO. VL78-000031A

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
DIMENSIONS:	Leading edge at X_T	<u>947</u>	<u>14.205</u>
	Y_T	<u>-70</u>	<u>-1.053</u>
	Trailing edge at X_T	<u>1330</u>	<u>19.950</u>
	Y_T	<u>-70</u>	<u>-1.053</u>
	Bracket spacing from $X_T = 997$	<u>50</u>	<u>.85</u>
	Centerline of LH feedline radially located at $\phi =$		<u>-34.5°</u>

TABLE III. - Continued.

MODEL COMPONENT: ET Protuberance PT₅
 DESCRIPTION: LOX feed line fairing used on nose of tank T₁₃ (tangent
ogive nose)
 MODEL SCALE: 0.015
 DRAWING NO. NONE

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
DIMENSIONS: Leading edge at X _T	<u>232</u>	<u>3.48</u>
Y _T	<u>0</u>	<u>0</u>
Trailing edge at X _T	<u>947</u>	<u>14.205</u>
	<u>70</u>	<u>1.053</u>

TABLE III. - Continued.

MODEL DIMENSIONAL DATA

MODEL COMPONENT: ET PROTUBERANCE - PT₇

GENERAL DESCRIPTION: LOX Vent line fairing on TANK - T₁₈ nose.

MODEL SCALE: 0.015

DRAWING NO.: NONE

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X_T	<u>360</u>	<u>5.4</u>
Y_T	<u>0</u>	<u>0</u>
Trailing edge at X_T	<u>947</u>	<u>14.205</u>
Y_T	<u>70</u>	<u>1.053</u>

TABLE III. - Continued.

MODEL COMPONENT: RUDDER - R5GENERAL DESCRIPTION: Configuration 140 A/B Orbiter RudderModel Scale = 0.015Model Drawing No. SS-A00148DRAWING NUMBER: VL70-000095, VL70-000146A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - FT ²	<u>106.38</u>	<u>0.0239</u>
Span (equivalent) - IN.	<u>201.0</u>	<u>3.015</u>
Inb'd equivalent chord	<u>91.585</u>	<u>1.374</u>
Outb'd equivalent chord	<u>50.833</u>	<u>0.762</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line)- FT ³ (Product of Area and Mean Chord)	<u>526.13</u>	<u>0.00178</u>

TABLE III. - Continued.

MODEL COMPONENT: BOOSTER SOLID ROCKET MOTOR - (S12)

GENERAL DESCRIPTION: Configuration 3A, Data for (1) of (2) sides,
per Rockwell Lines VL77-000036A

Model Scale = 0.015

DRAWING NUMBER VL72-000088D
VL77-000036A

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (Includes Nozzle) - IN.	<u>1741.0</u>	<u>26.115</u>
Max Width (Tank Dia) - IN.	<u>142.3</u>	<u>2.135</u>
Max Depth (Aft Shroud) - IN.	<u>192.0</u>	<u>2.880</u>
Fineness Ratio	<u>9.06771</u>	<u>9.06771</u>
Area - FT ²		
Max Cross-Sectional	<u>201.06193</u>	<u>0.0452</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
WP of BSRM Centerline (Z _T) - IN.	<u>400</u>	<u>6.000</u>
FS of BSRM Nose (X _T) - IN.	<u>743</u>	<u>11.145</u>

TABLE III. - Continued.

MODEL COMPONENT: EXTERNAL TANK - (T12)

GENERAL DESCRIPTION: External Oxygen Hydrogen Tank

NOTE: Identical to T11 with external fuel lines added

Model Scale = 0.015

DRAWING NUMBER

VL78-000031A

VL78-000041A

DIMENSION:

FULL SCALE

MODEL SCALE

Length - IN. (Nose @ $X_T = 309$)

1865

27.975

Max Width (Dia) - IN.

324

4.86

Max Depth

Fineness Ratio

5.75617

5.75617

Area - FT²

Max Cross-Sectional

572.555

0.1288

Planform

Wetted

Base

WP of Tank Centerline (Z_T) - IN.

400.0

6.000

TABLE III. - Continued.

MODEL COMPONENT : External Tank - T₁₃

GENERAL DESCRIPTION : External Oxygen Hydrogen Tank.

NOTE: Has same fuel lines and protuberances as T₁₂. Has a 1208 in.

Radius Tangent Ogive Nose.

Model Scale = 0.015

DRAWING NUMBER : SS-A-01167

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length - IN. (Nose @ $X_T = 220$)	<u>1954.0</u>	<u>29.310</u>
Max Width (Dia.) - IN.	<u>324</u>	<u>4.86</u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u>6.031</u>	<u>6.031</u>
Area ft. ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>572.555</u>	<u>0.1288</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
WP of Tank Centerline (Z_T), IN.	<u>400.0</u>	<u>6.000</u>

TABLE III. - Continued.

MODEL COMPONENT : EXTERNAL TANK - T18

GENERAL DESCRIPTION : External oxygen-hydrogen tank which is
similar to T12 except that the nose and tangency point have been
shortened by 39 inches full scale.

MODEL SCALE: 0.015

DRAWING NUMBER : SS-A01167

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ~ IN. (Nose @ X_T 348)	<u>1826.0</u>	<u>27.390</u>
Max Width ~ IN.	<u>324.0</u>	<u>4.860</u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u>5.636</u>	<u>5.636</u>
Area ~ ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>572.555</u>	<u>0.1288</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
WP of ET centerline (Z_T) ~ In.	<u>400.0</u>	<u>6.000</u>

TABLE III. - Continued.

MODEL COMPONENT: VERTICAL - V 8.GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Vertical TailNOIT: Similar to V5 with radius on TE upper corner and LE lower cornerwhere vertical meets fuselage.Model Scale = 0.015Model Drawing No. SS-A0014.9

DRAWING NUMBER:

VL70-000140A
VL70-000146ADIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATA

Area (Theo) Ft^2	<u>413.253</u>	<u>0.09298</u>
Planform		
Span (Theo) In	<u>315.720</u>	<u>4.73580</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.40399</u>	<u>0.40399</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45.00</u>	<u>45.00</u>
Trailing Edge	<u>25.947</u>	<u>25.947</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.500</u>	<u>4.02750</u>
Tip (Theo) WP	<u>108.470</u>	<u>1.62705</u>
MAC	<u>199.80756</u>	<u>2.99711</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>21.95250</u>
W. P. of .25 MAC	<u>635.522</u>	<u>9.53283</u>
B. L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle Deg	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle Deg	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius	<u>2.00</u>	<u>0.0300</u>
Void Area	<u>13.17</u>	<u>0.00296</u>
Blanketed Area	<u>0.00</u>	<u>0.00</u>

TABLE III. - Continued.

MODEL COMPONENT: WING-(W₁₁₄)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter WingNOTE: Identical to W₁₁₄ except airfoil thickness. Dihedral angle is along trailing edge of wing.

Model Scale = 0.015

Model Drawing No. SS-A00148

TEST NO.DWG. NO. VL70-000140B
VL70-000200DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATAArea (Theo.) Ft²

Planform

Span (Theo In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees (at X₀=1506.623, Y₀=Incidence Angle, degrees 105, Z₀= 282.75)

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATAArea (Theo) Ft²

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip 1.00 $\frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root $\frac{b}{2}$ = 0.425Tip $\frac{b}{2}$ = 1.00

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area Ft²

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

TABLE III. - Concluded.

MODEL COMPONENT: BOUNDARY TRANSITION STRIP - X₂₅

GENERAL DESCRIPTION: Carborundum grit located on SRB, ET, and orbiter noses and orbiter wing and vertical stabilizer surfaces.

Nominal grit size on nose, wing (except glove).
and vertical tail surfaces

No.	120
-----	-----

Diameter - In.	0.0054
----------------	--------

Nominal grit size on orbiter glove

No.	100
-----	-----

Diameter, inches	0.0065
------------------	--------

Location - In.

Aft of nose leading edge, streamwise	1.2
---	-----

Aft of wing, vertical tail, and glove, inches perpendicular to leading edge	0.5
---	-----

Table IV. Pressure Weighting Factors

<u>RUN</u>	<u>LOCATION OF BALANCE</u>	<u>WF1</u>	<u>WF2</u>	<u>WF3</u>	<u>WF4</u>	<u>WF5</u>	<u>WF6</u>
1	ORB.	1	1	1	1	1	1
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
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30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45	ORB	1	1	1	1	1	1

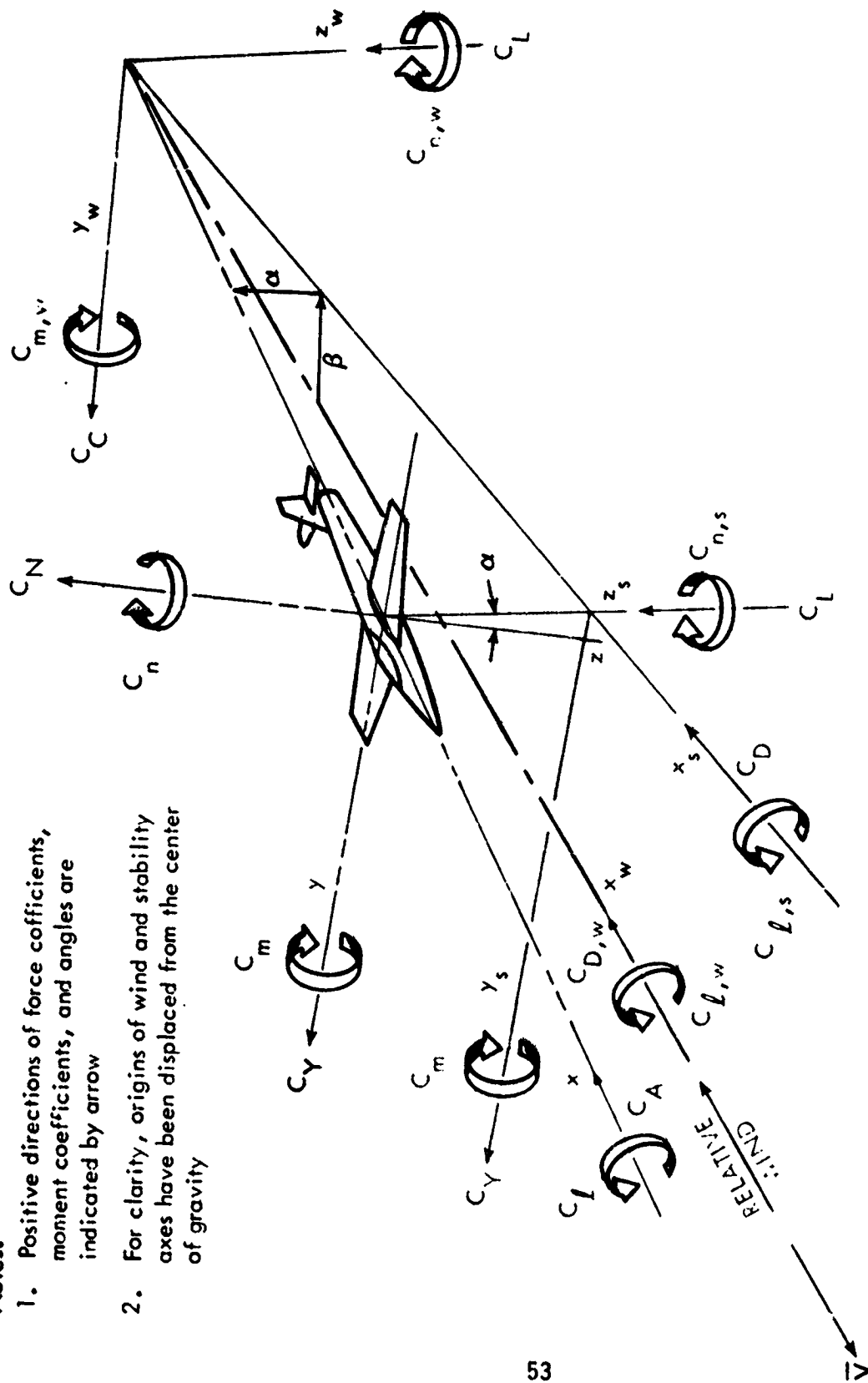
Table IV. (Cont'd)

<u>RUN</u>	<u>LOCATION OF BALANCE</u>	<u>WF1</u>	<u>WF2</u>	<u>WF3</u>	<u>WF4</u>	<u>WF5</u>	<u>WF6</u>
46	ORB	1	1	1	1	1	1
47		1	1	1	0	0	1
48	↑						
49		↑	↑	↑	↑	↑	↑
50							
51							
52							
53	↓						
54		↓	↓	↓	↓	↓	↓
55							
56	ORB	1	1	1	0	0	1
57	TANK	1	0	1	0	0	0
58							
59	↑	↑	↑	↑	↑	↑	↑
60							
61							
62							
63							
64					↓	↓	
65					0	0	
66					1	1	
67					↑	↑	
68							
69							
70							
71							
72							
73							
74	↓	↓	↓	↓	↓	↓	↓
75							
76	TANK	1	0	1	1	1	0
77	ORB	1	1	1	1*	1	1
78							
79	↑	↑	↑	↑	↑	↑	↑
80							
81							
82							
83							
84	↓	↓	↓	↓	↓	↓	↓
85							
86	ORB	1	1	1	1*	1	1

*USE C_{P5} VALUE FOR C_{P4}

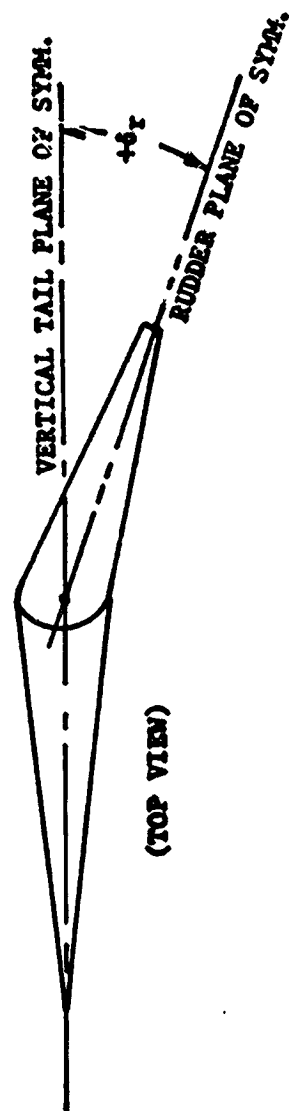
Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity



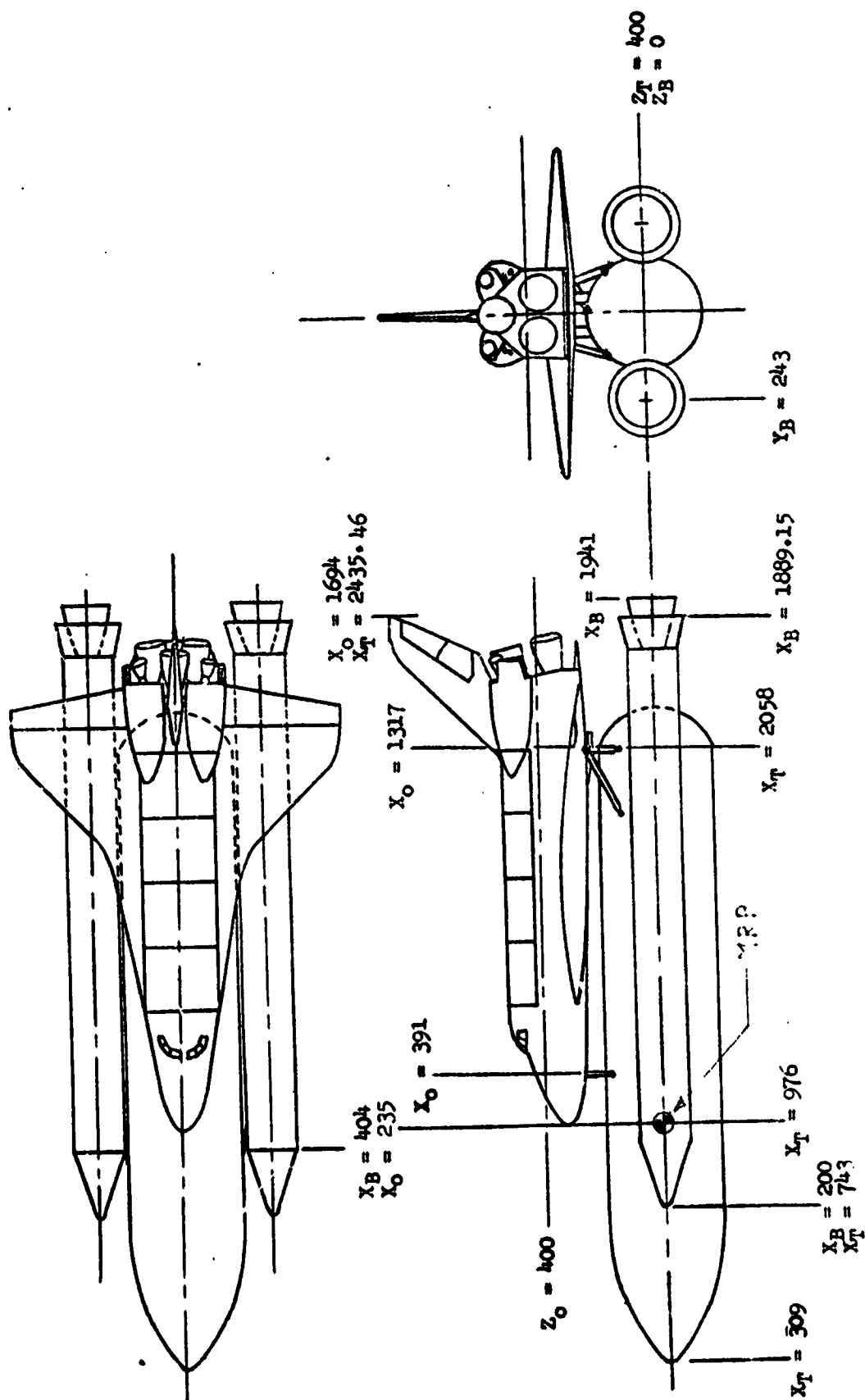
a. Stability and body axis systems

Figure 1. - Axis systems.



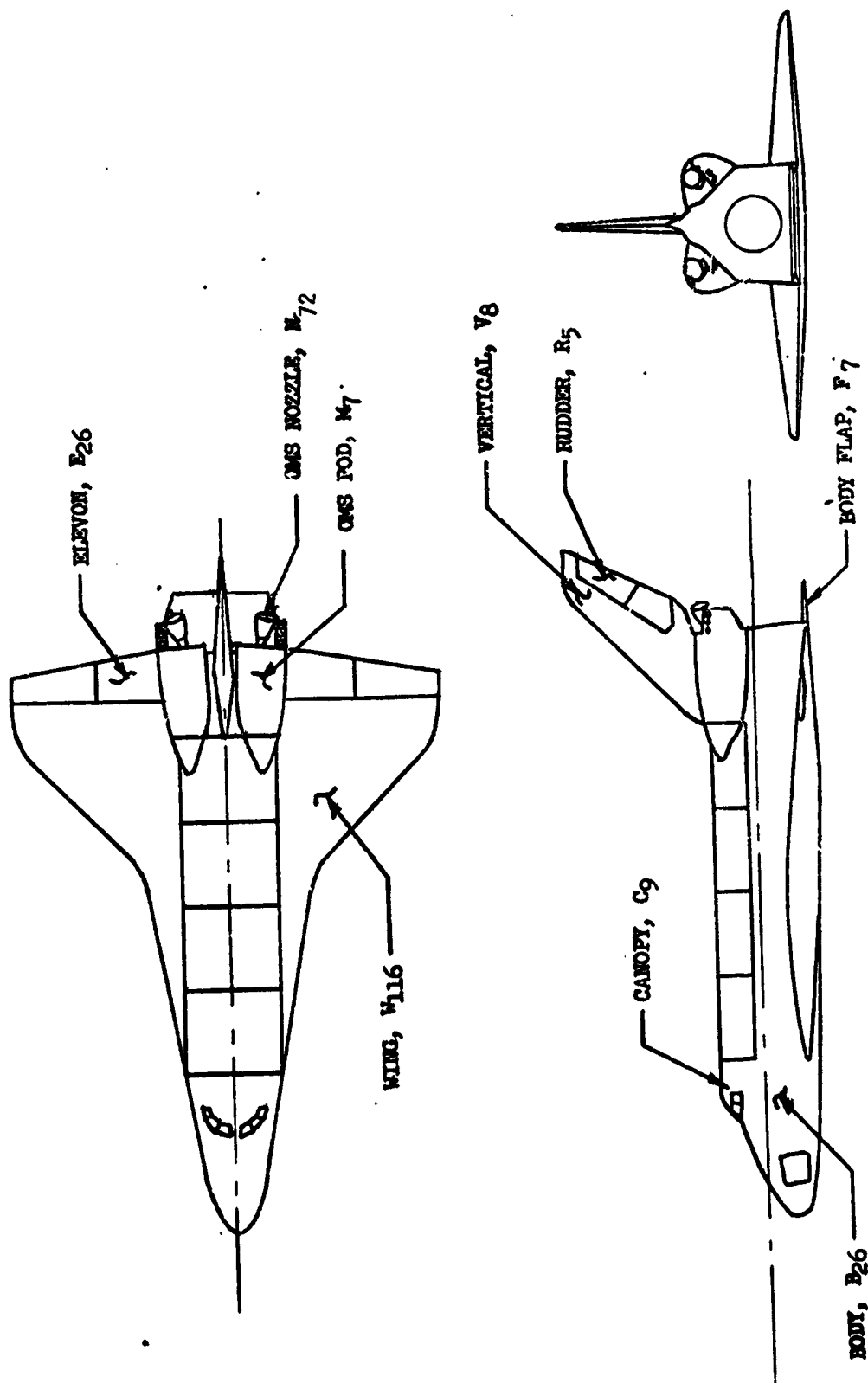
b. Rudder Deflection Angle (δ_r) Defined

Figure 1. - Concluded.



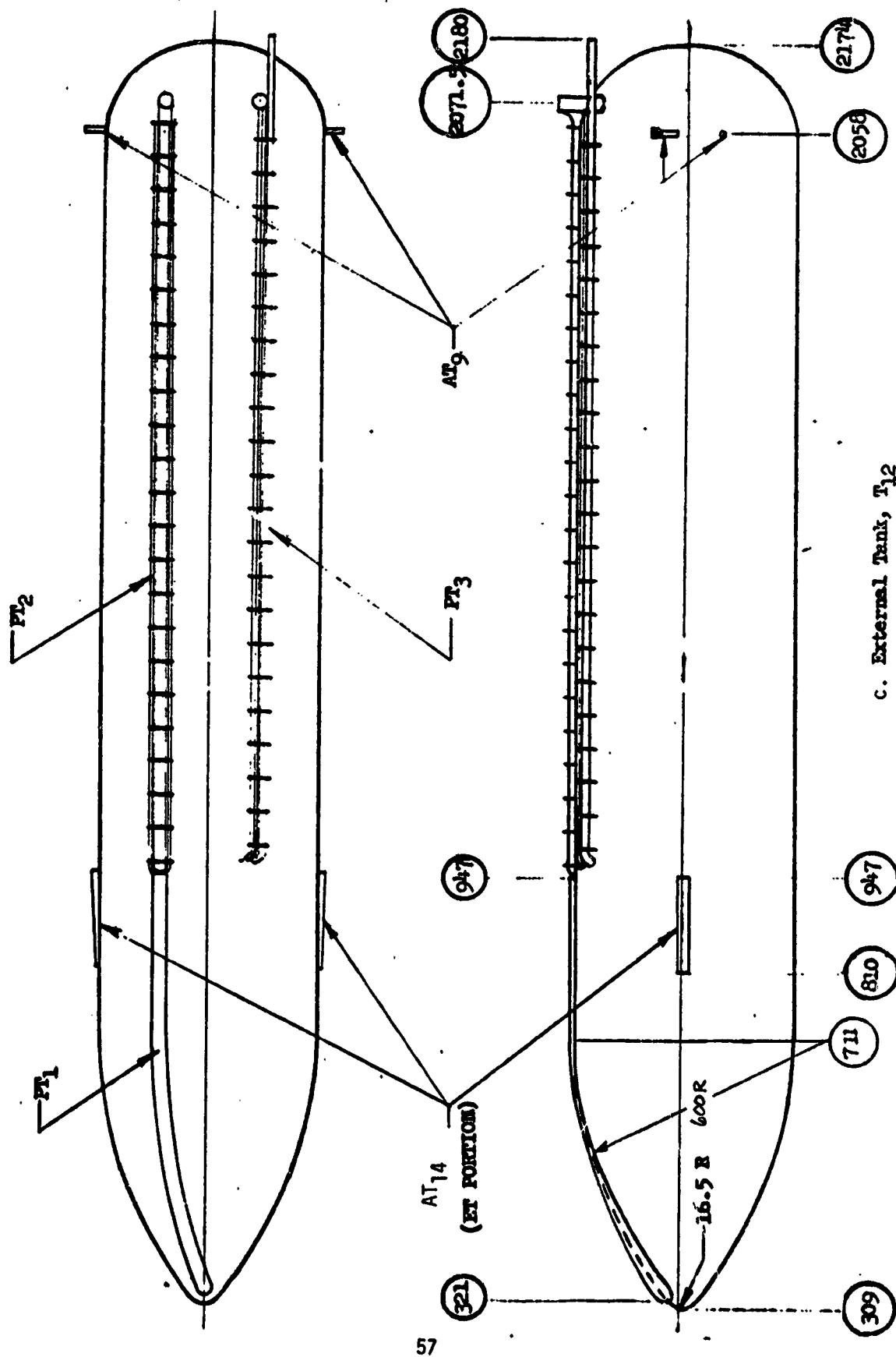
a. Mated Vehicle

Figure 2. - Model sketches.



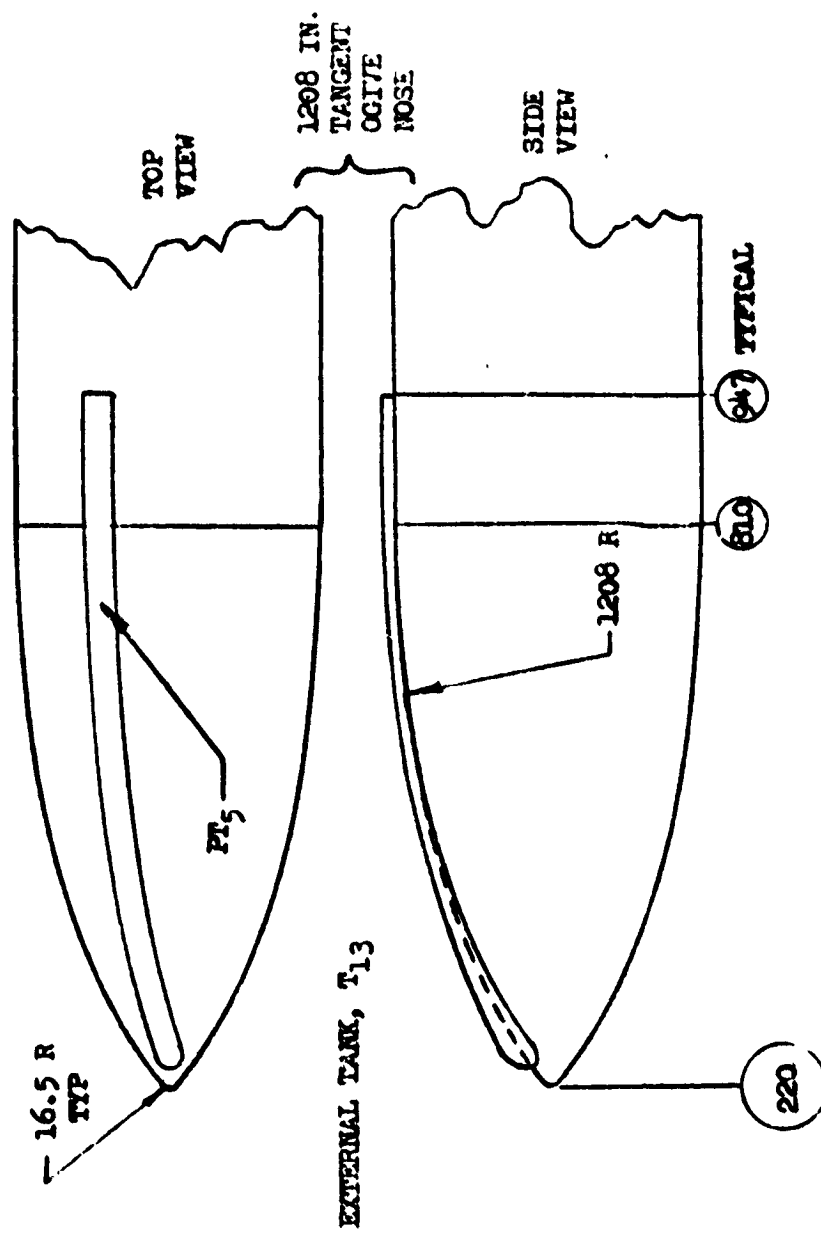
b. Orbiter Three View

Figure 2. - Continued.



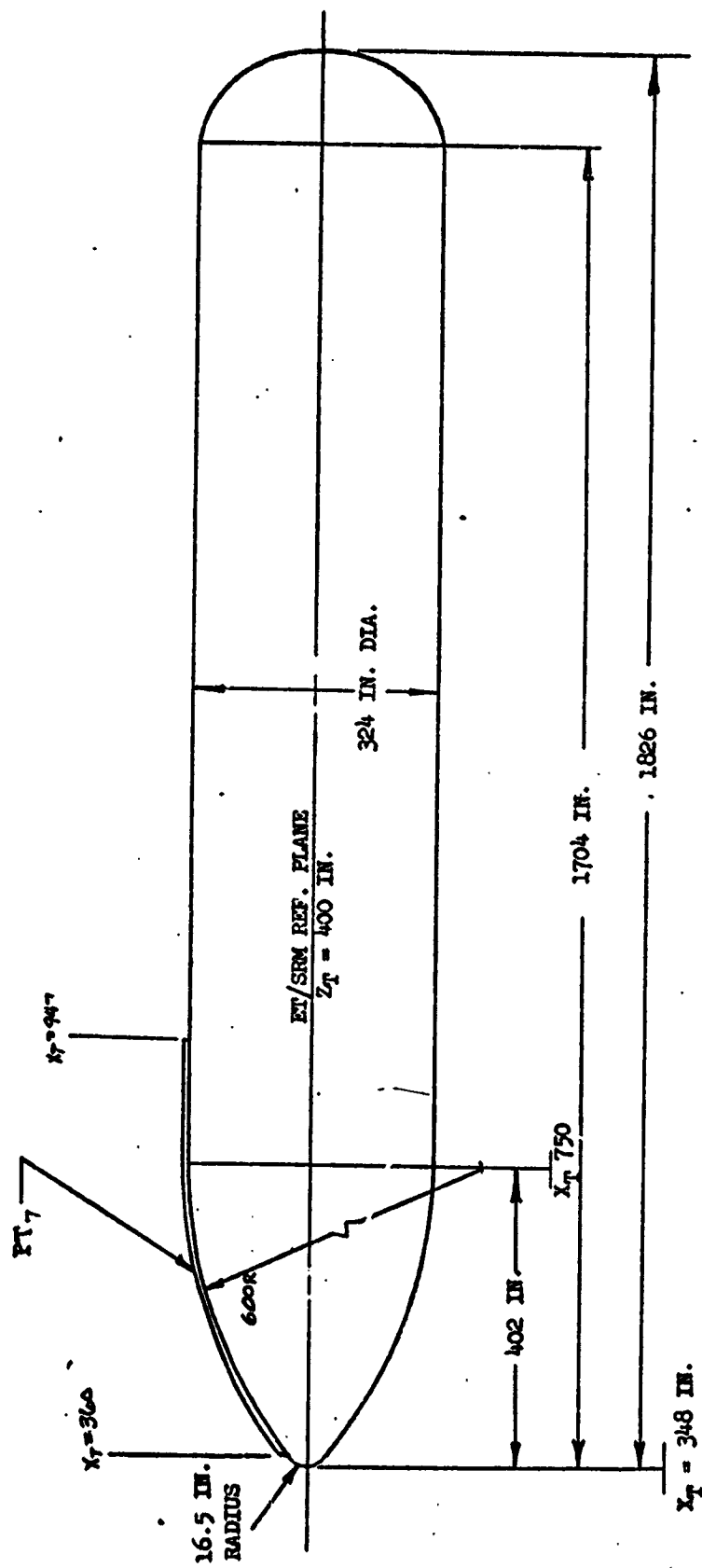
c. External Tank, T₁₂

Figure 2. - Continued.



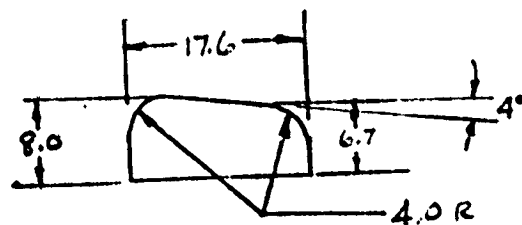
d. External tank nose, T₁₃

Figure 2. - Continued.

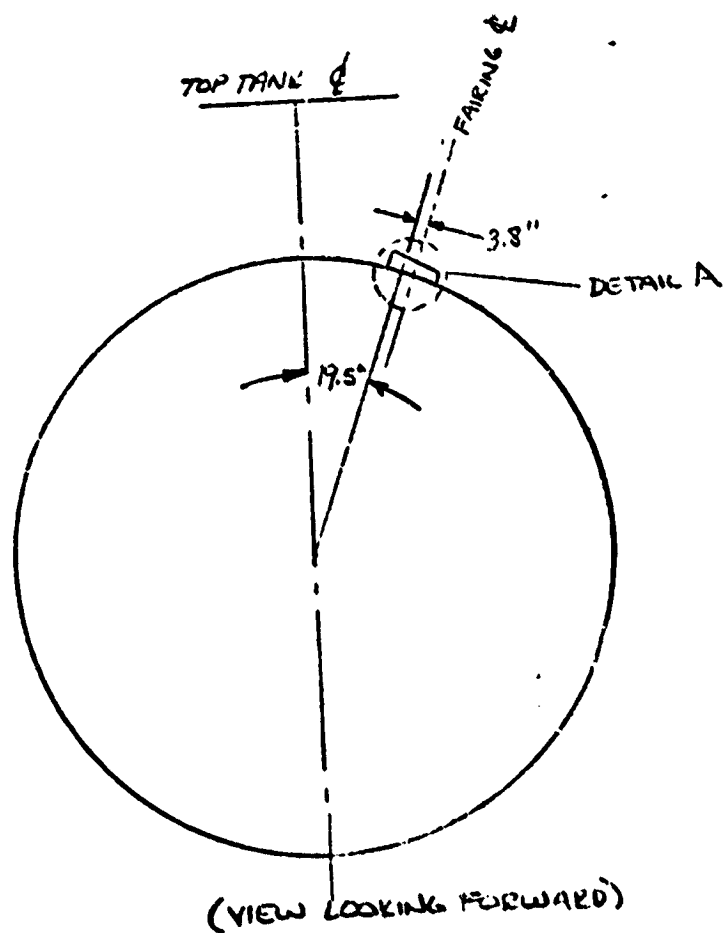


e. External Tank T18

Figure 2. - Continued.

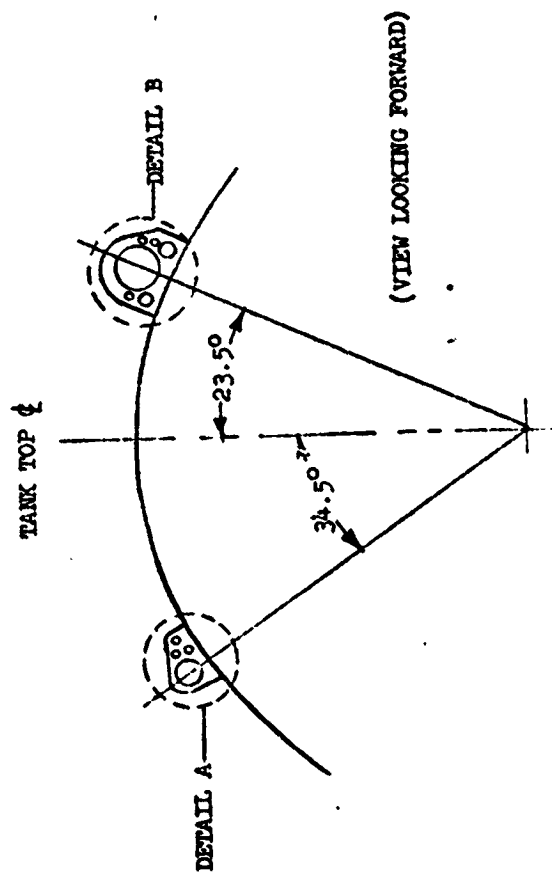
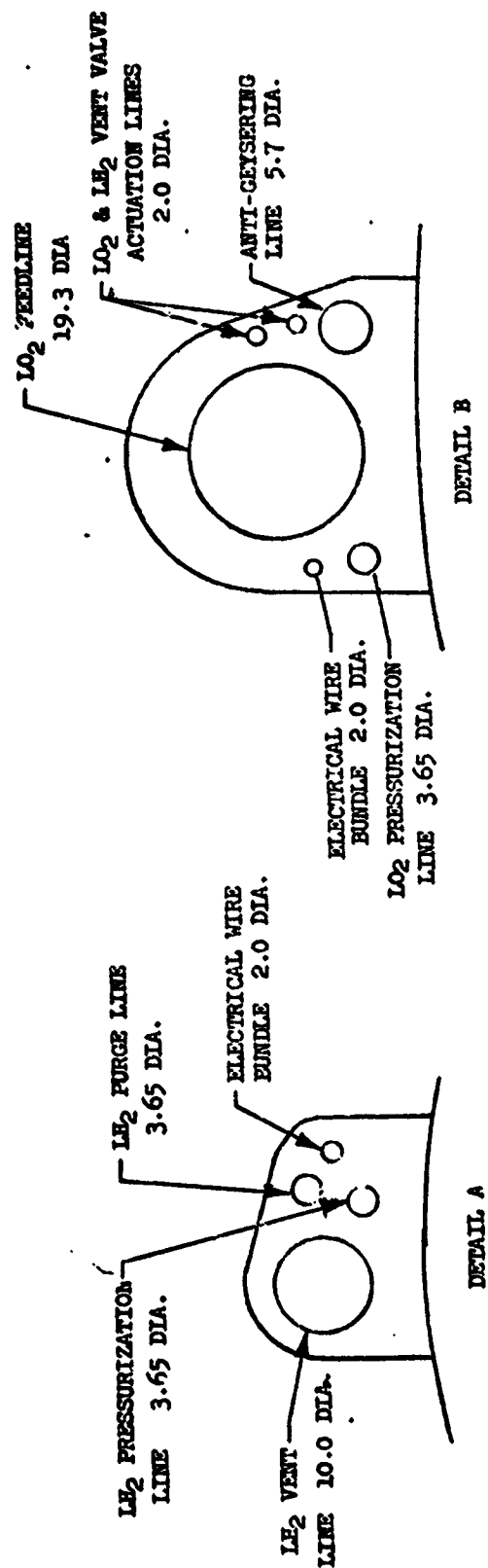


DETAIL A



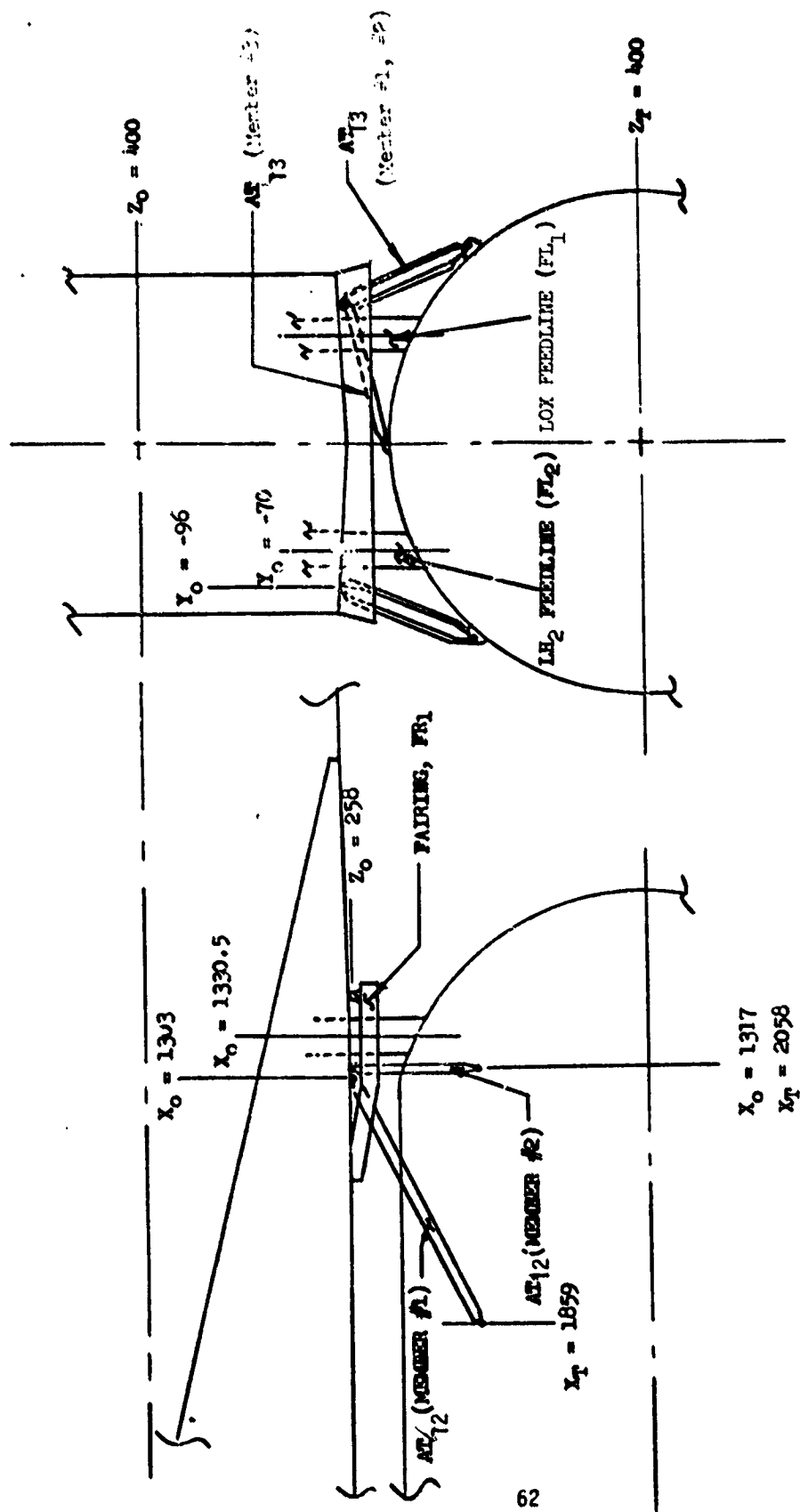
f. LOX Ventline Fairing (PT₁, PT₃, PT₅, PT₇)

Figure 2. - Continued.



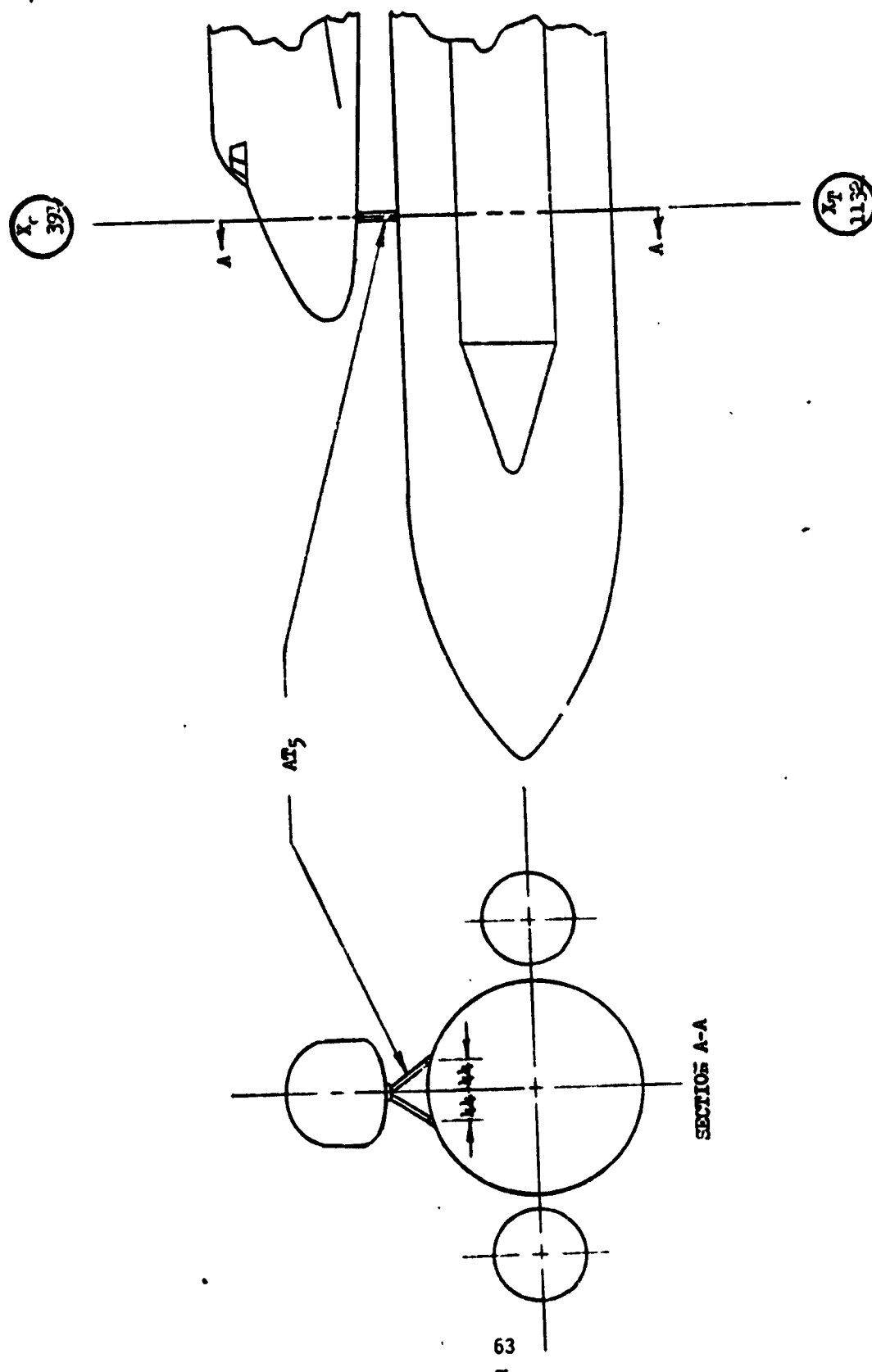
3. ET Protuberance Brackets for PT₂ and PT₃

Figure 2. - Continued.



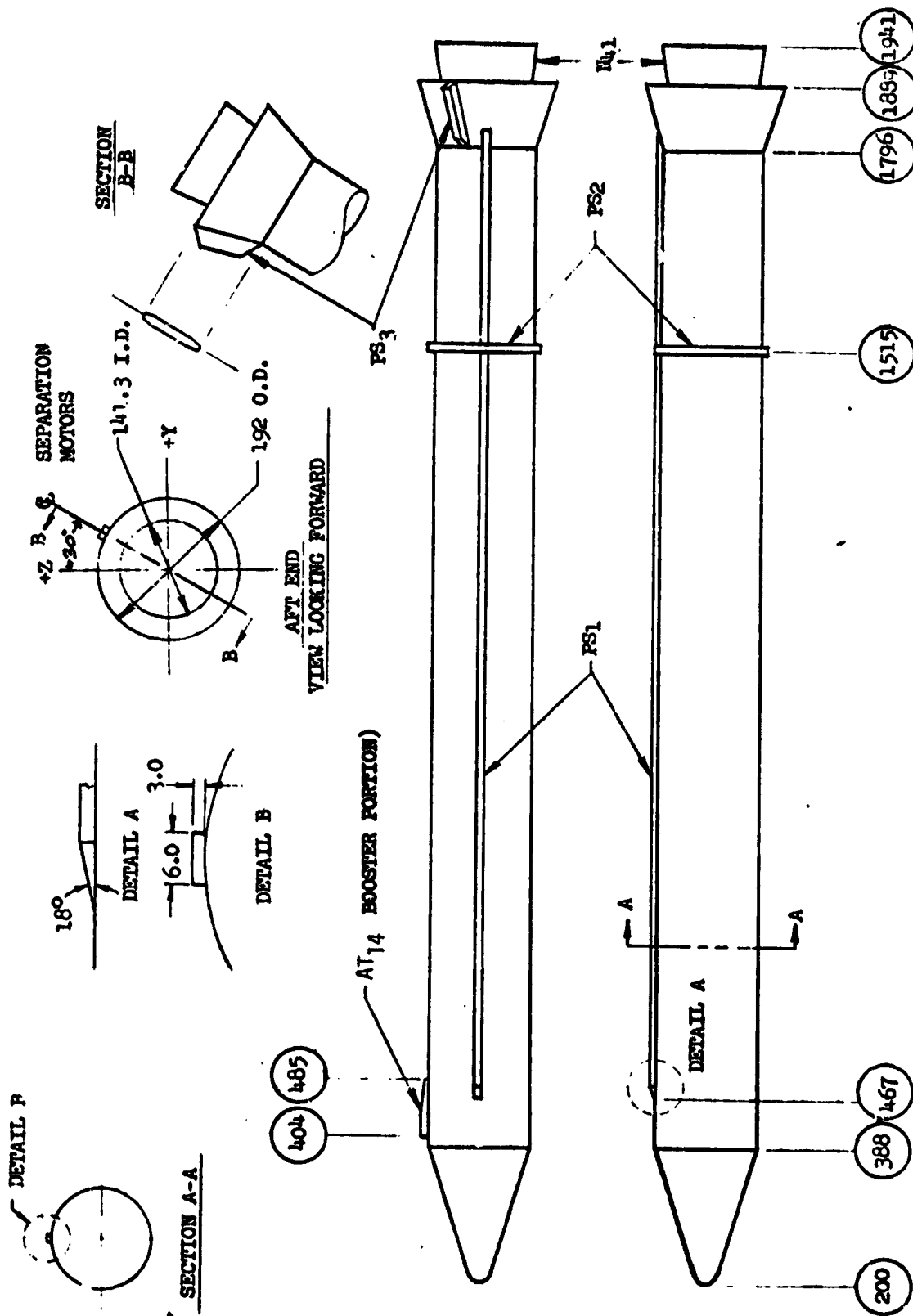
h. Aft Orbiter/ET Attach Hardware

Figure 2. - Continued.



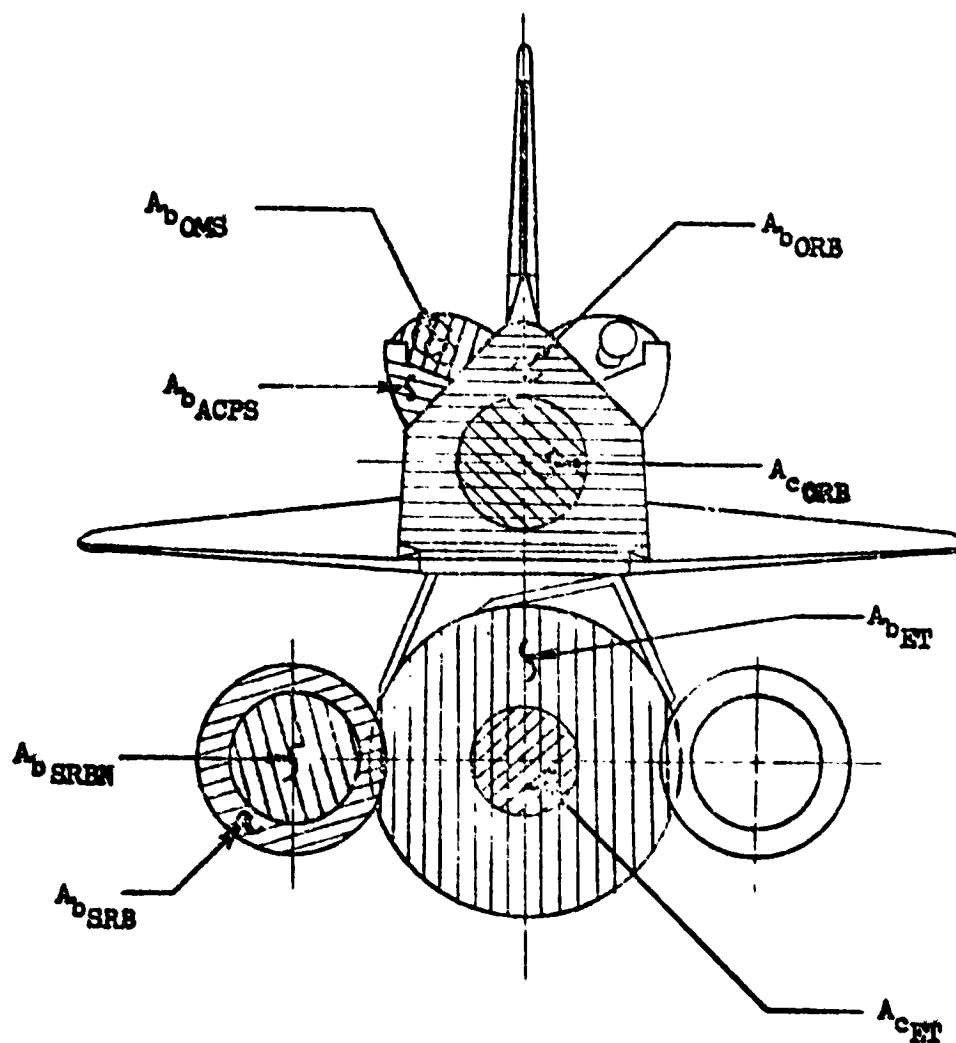
i. Front Orbiter/ET Attach Structure, A¹¹³²

Figure 2. - Continued.

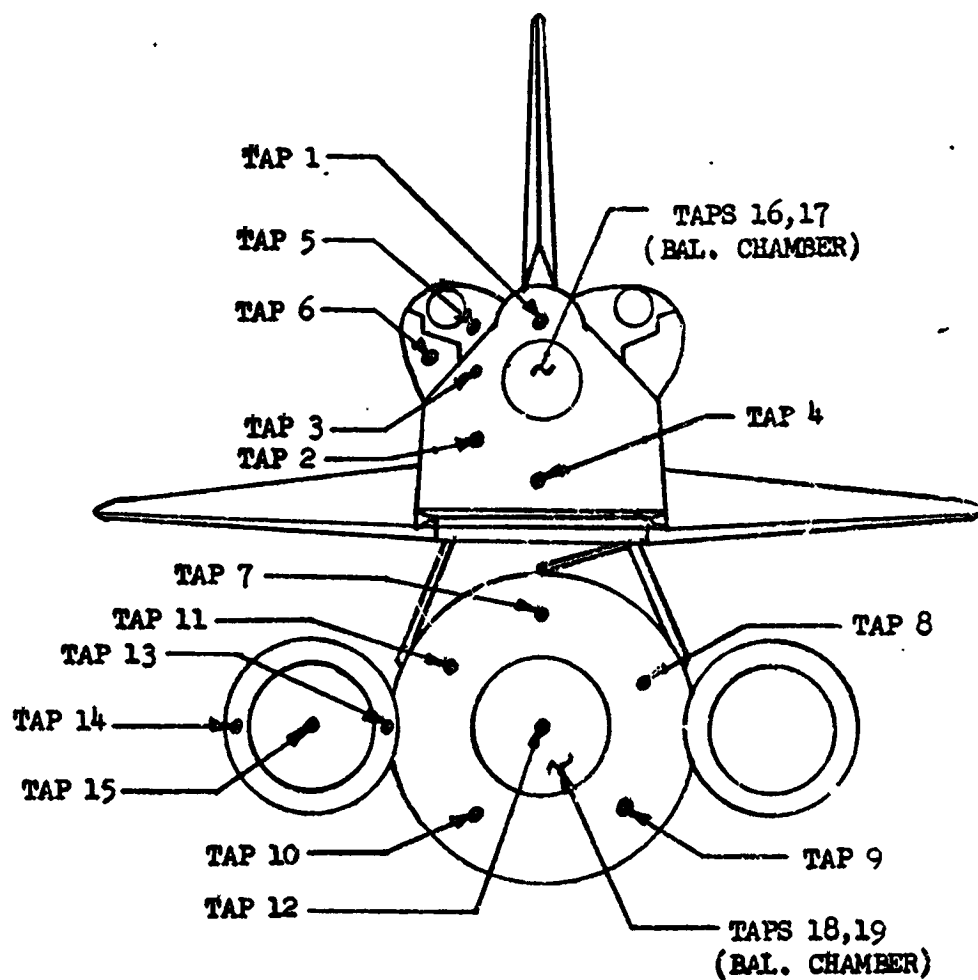


j. Solid Rocket Booster, S₁₂

Figure 2. - Continued.

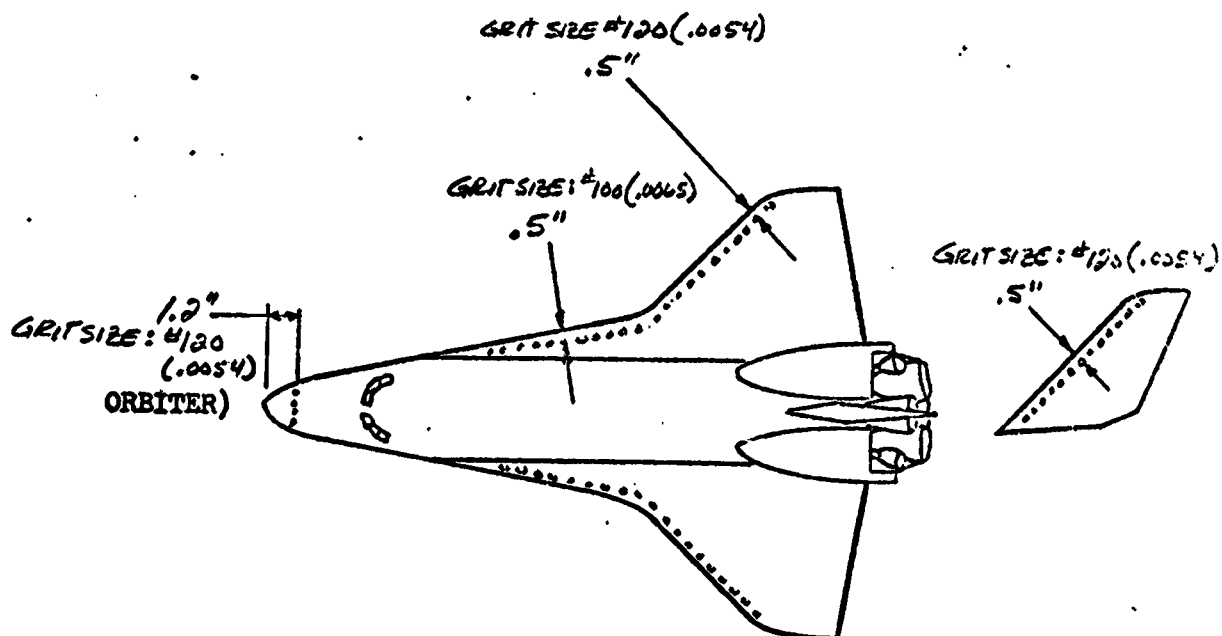
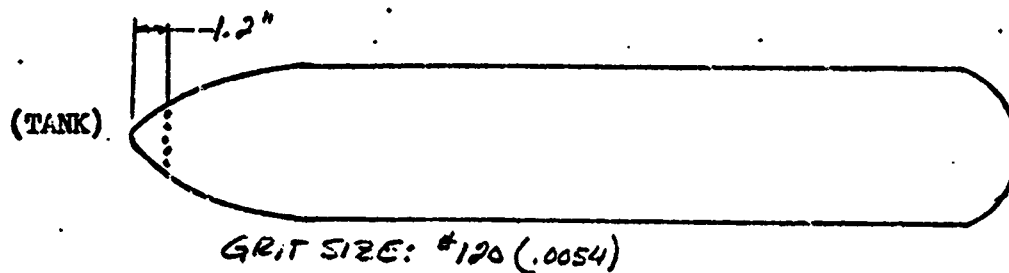
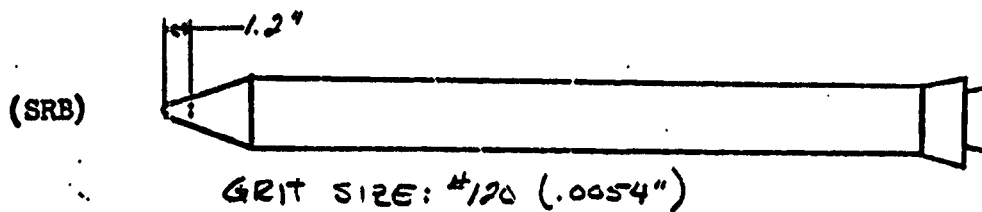


k. Definition of Model Base and Cavity Areas
Figure 2. - Continued.



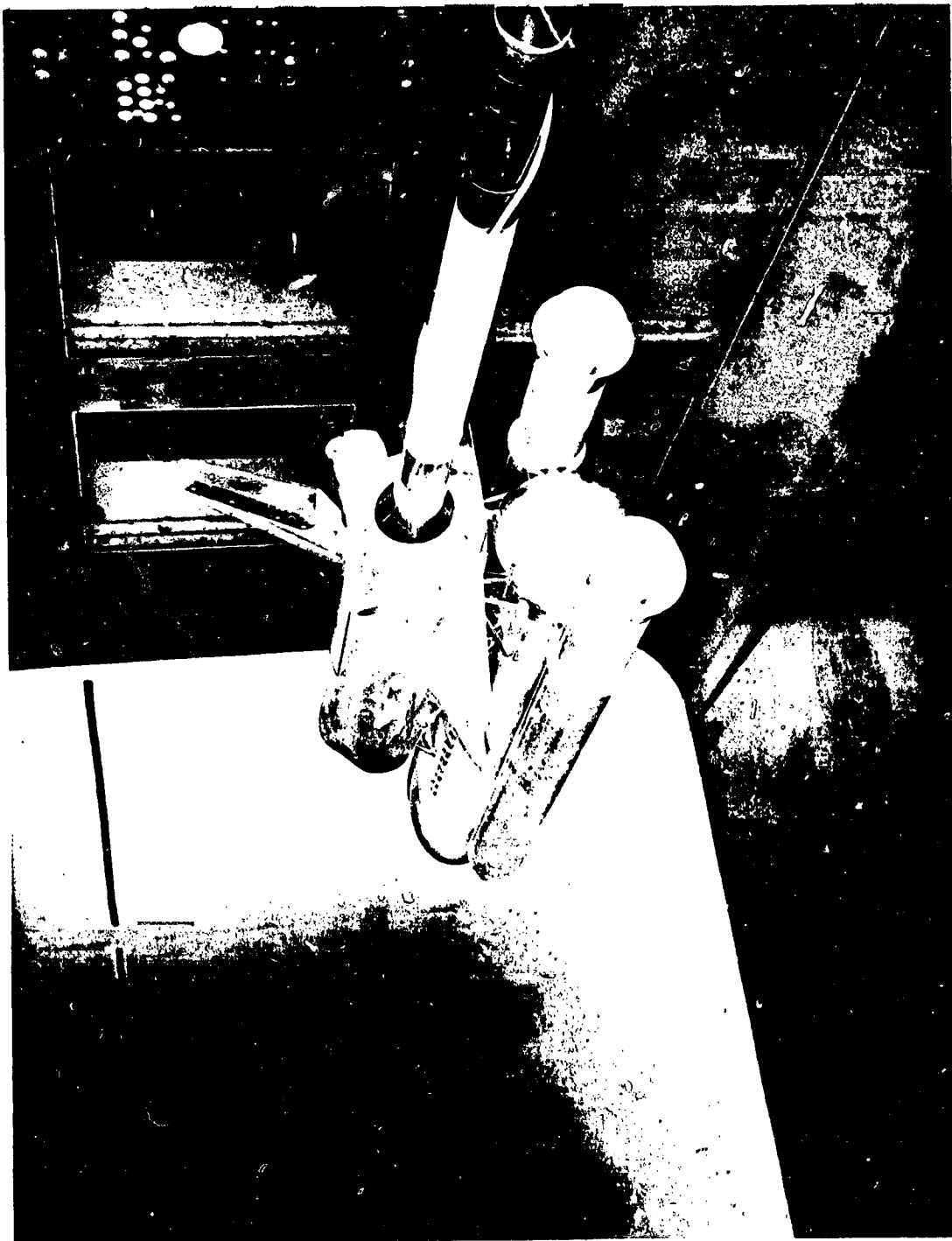
1. Base Pressure Tap Locations

Figure 2. - Continued.



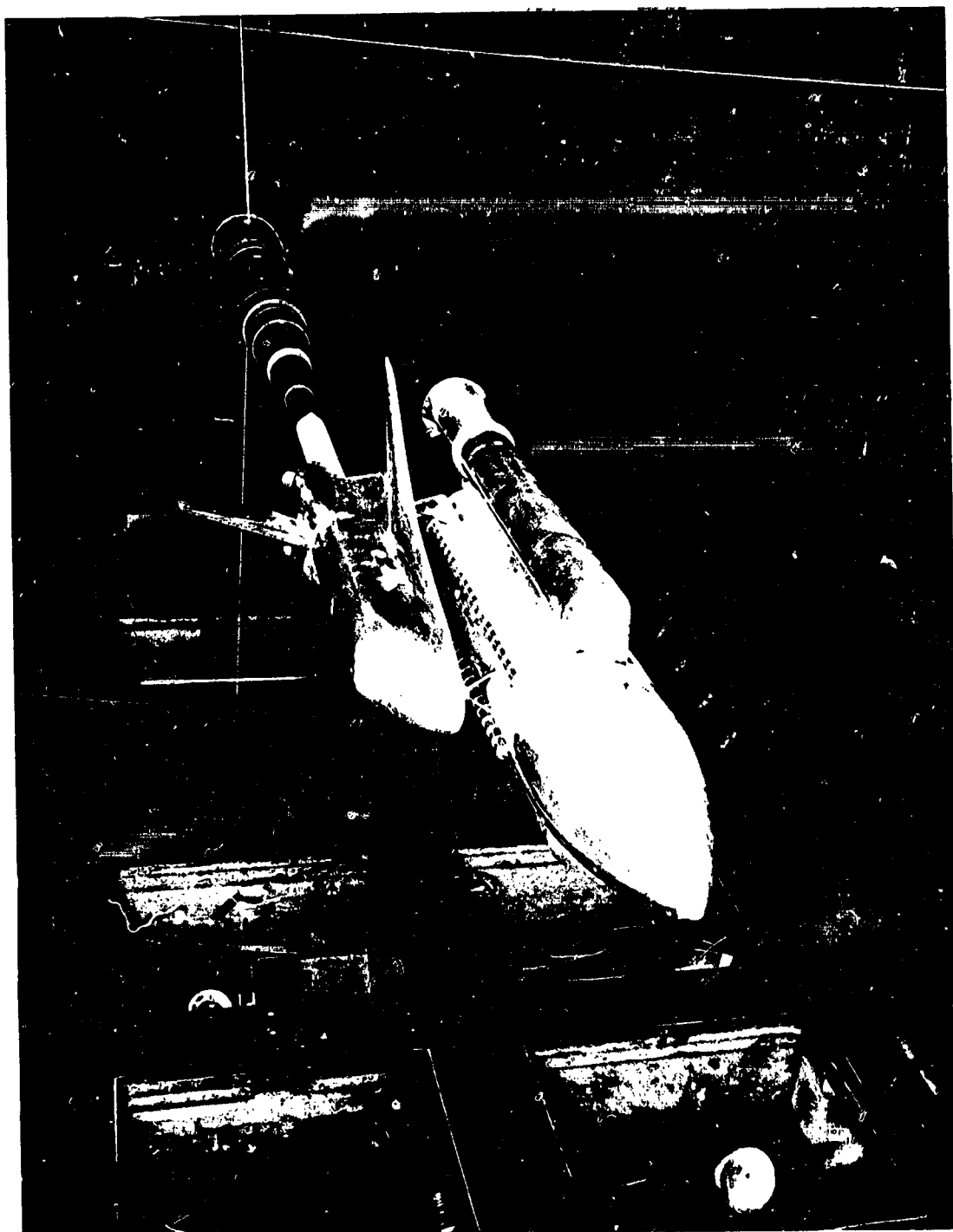
m. Transition Strip Locations X25
Figure 2. - Continued

NASA
L-73-9125
HAI



a. Rear Three Quarter View
Figure 3. - Model Installation.

NASA
L-73-9124
DA41



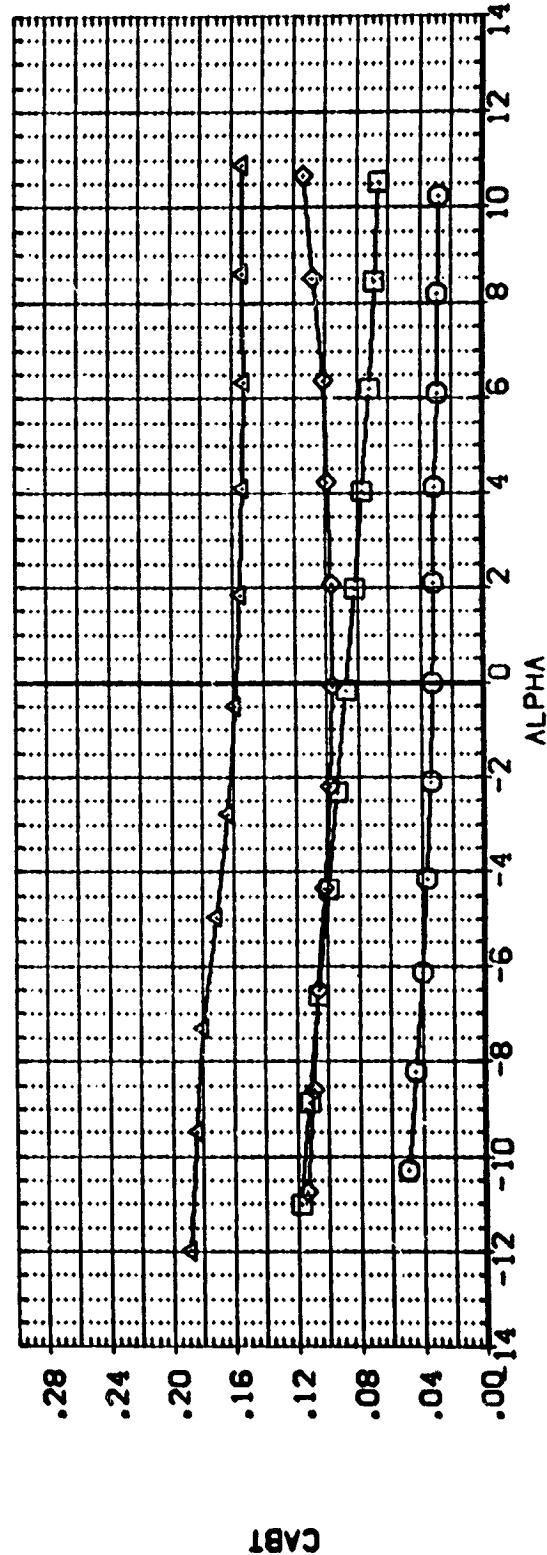
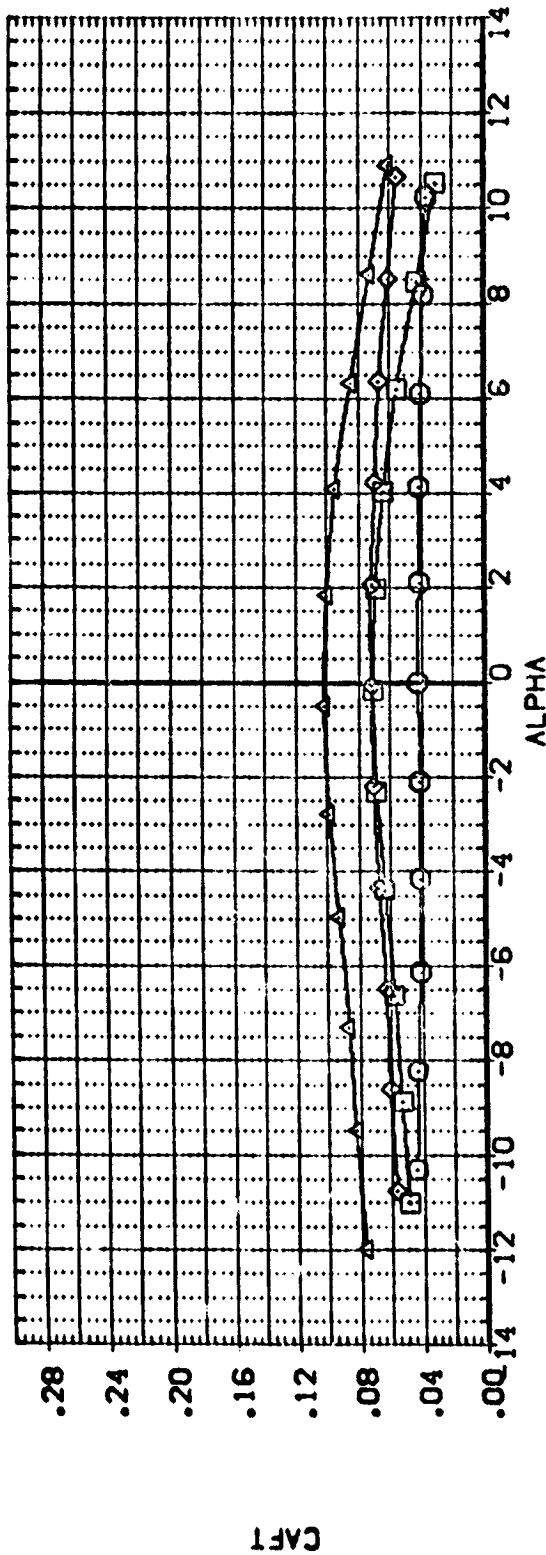
b. Front Three-Quarter View
Figure 3. - Continued.

DATA FIGURES

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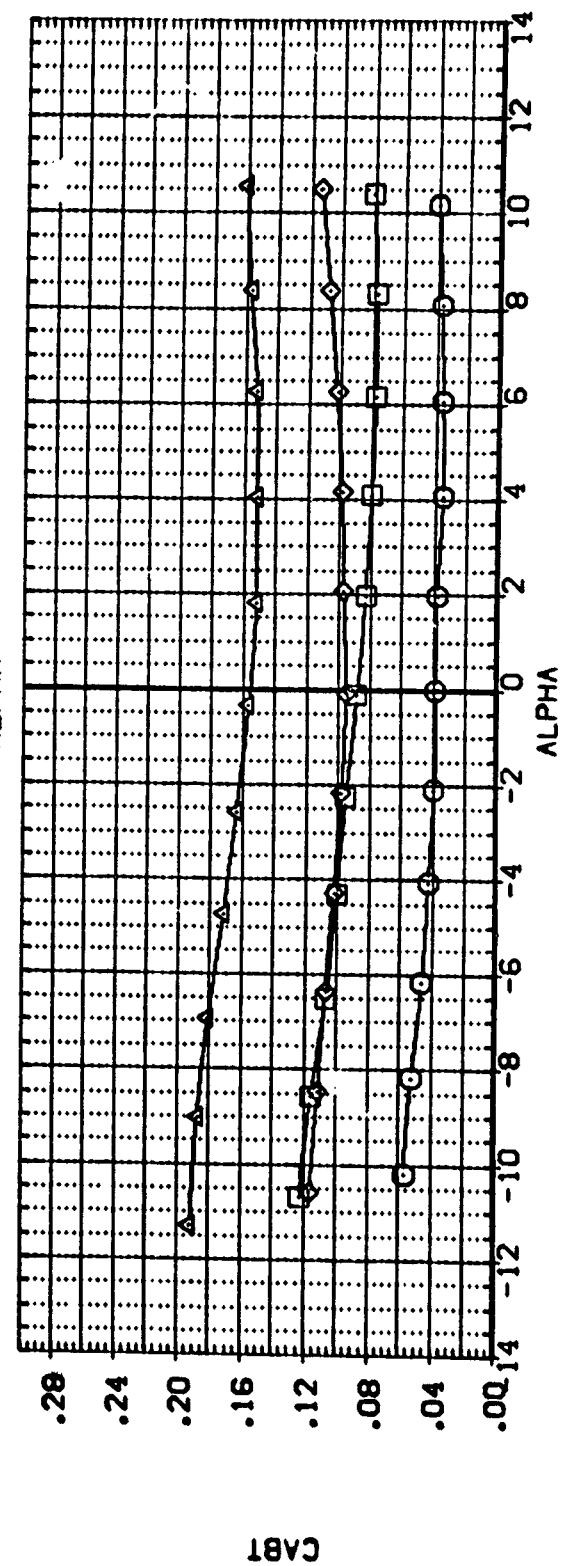
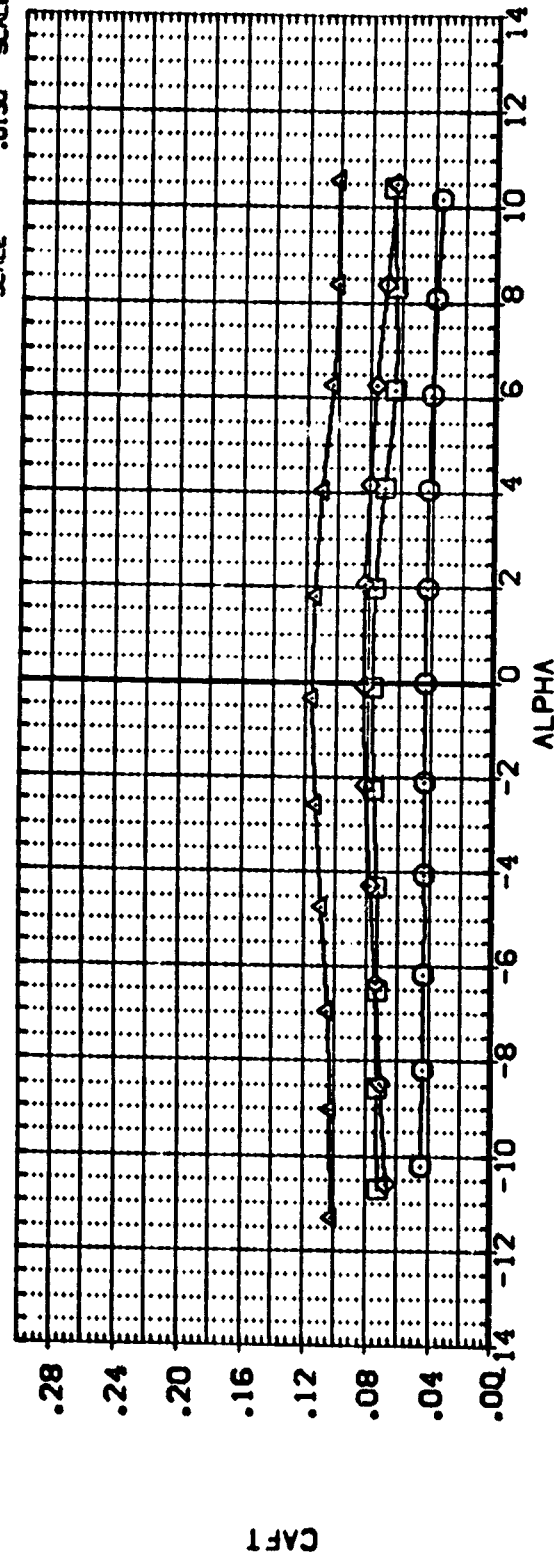
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(A)MACH = .60

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CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

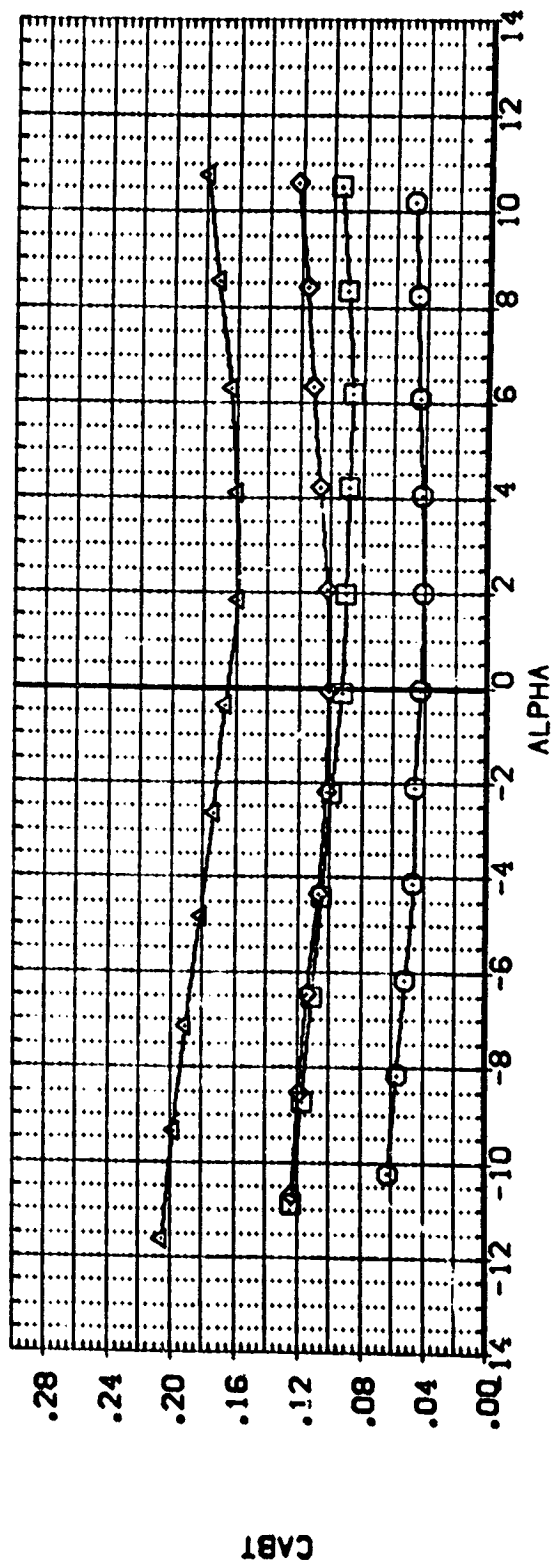
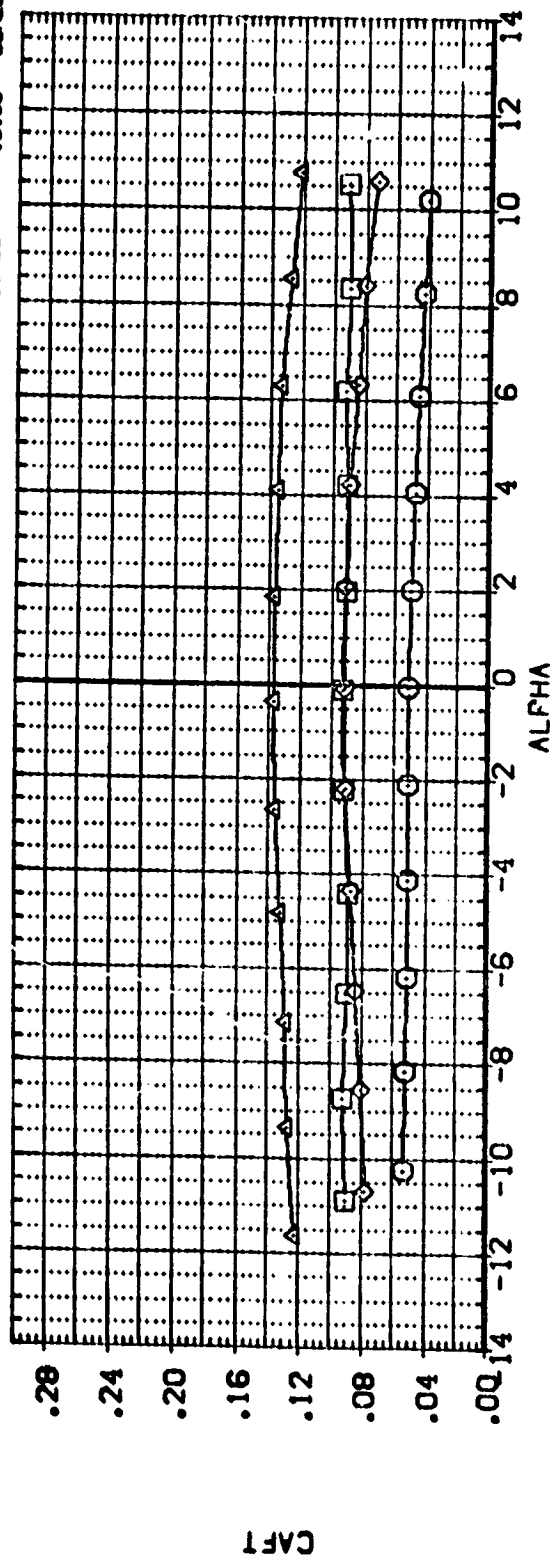
(B)MACH = .80



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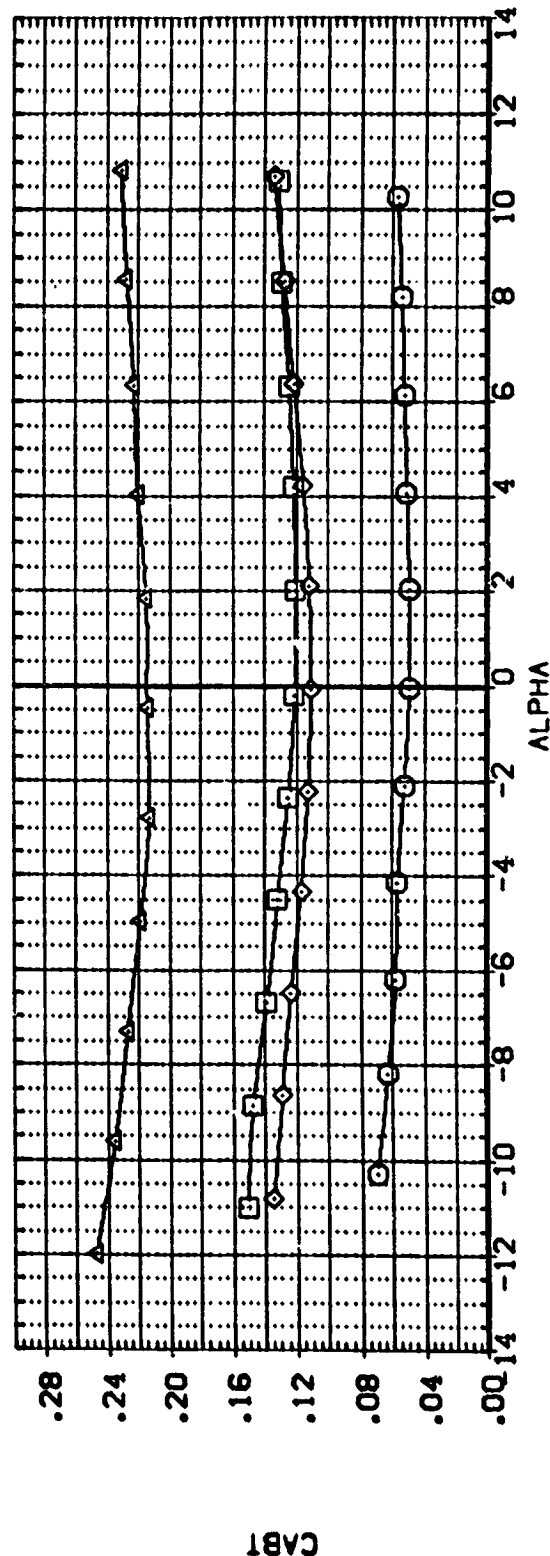
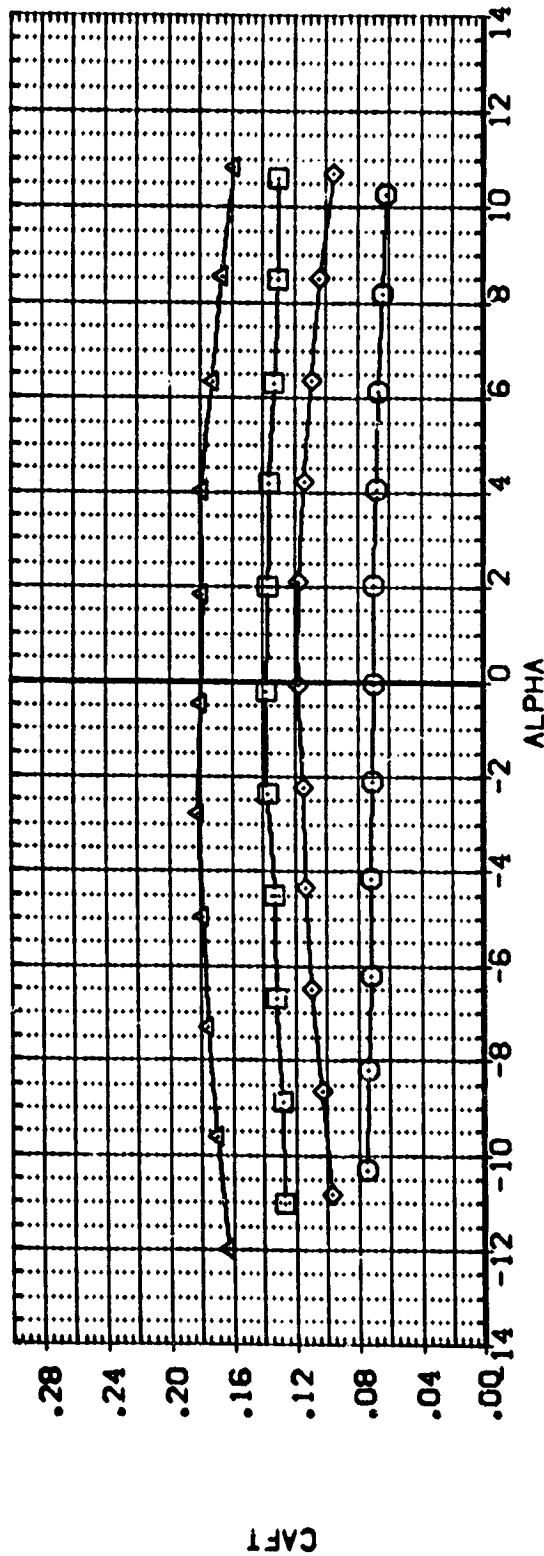
CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

(C)MACH = .90

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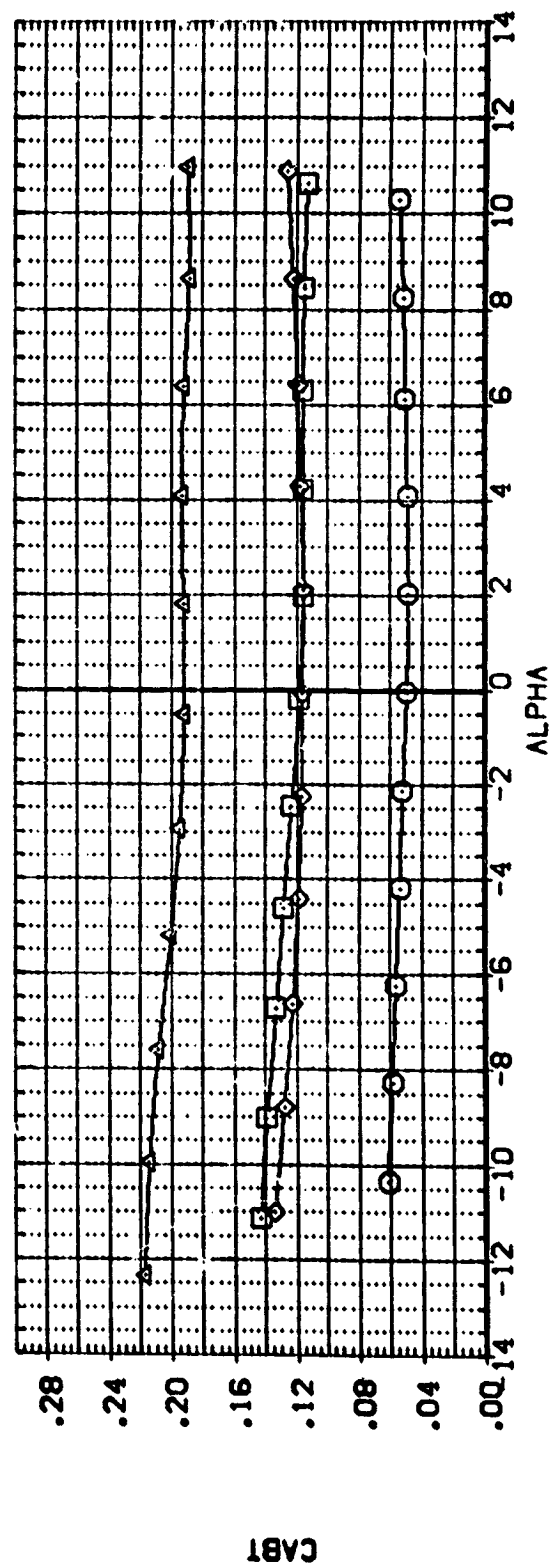
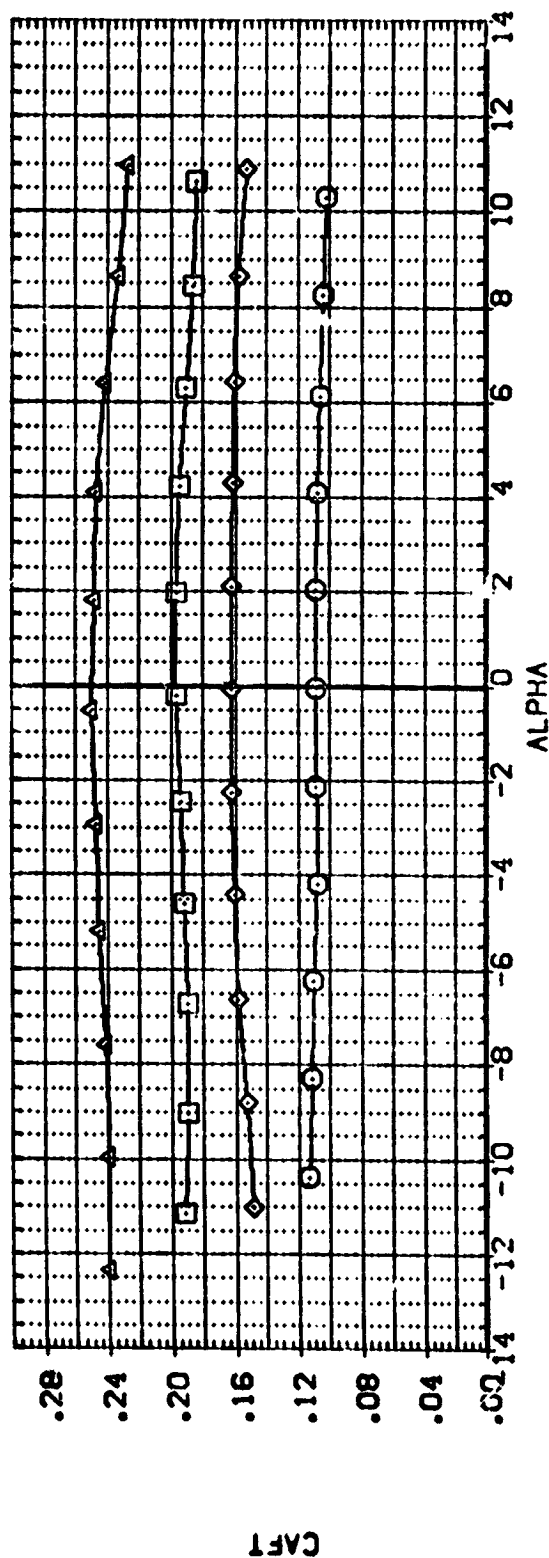
CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

(0)MACH = .98



8888
8888

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SCALE	.0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

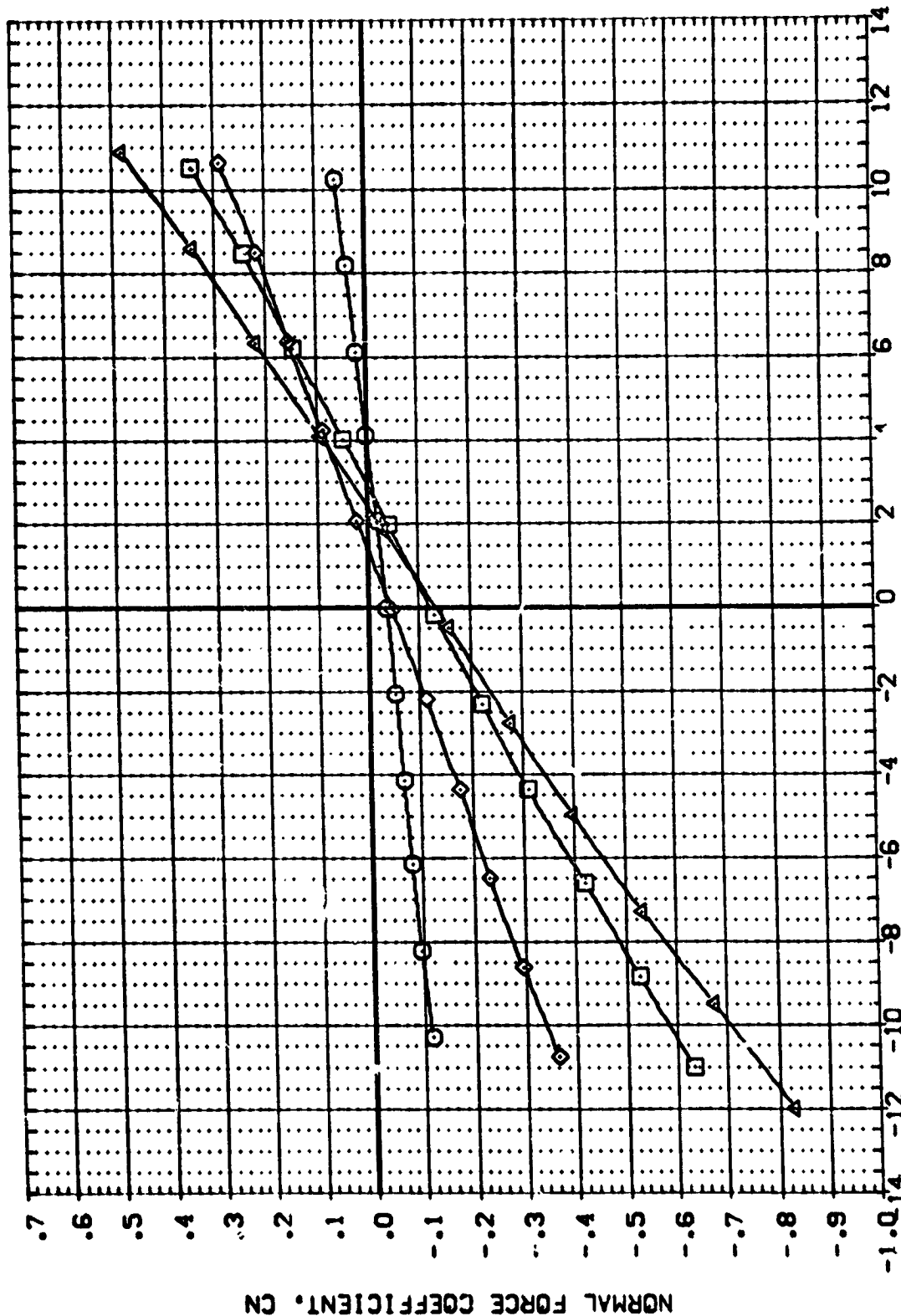
CEJMACH = 1.20

PAGE 5

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CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

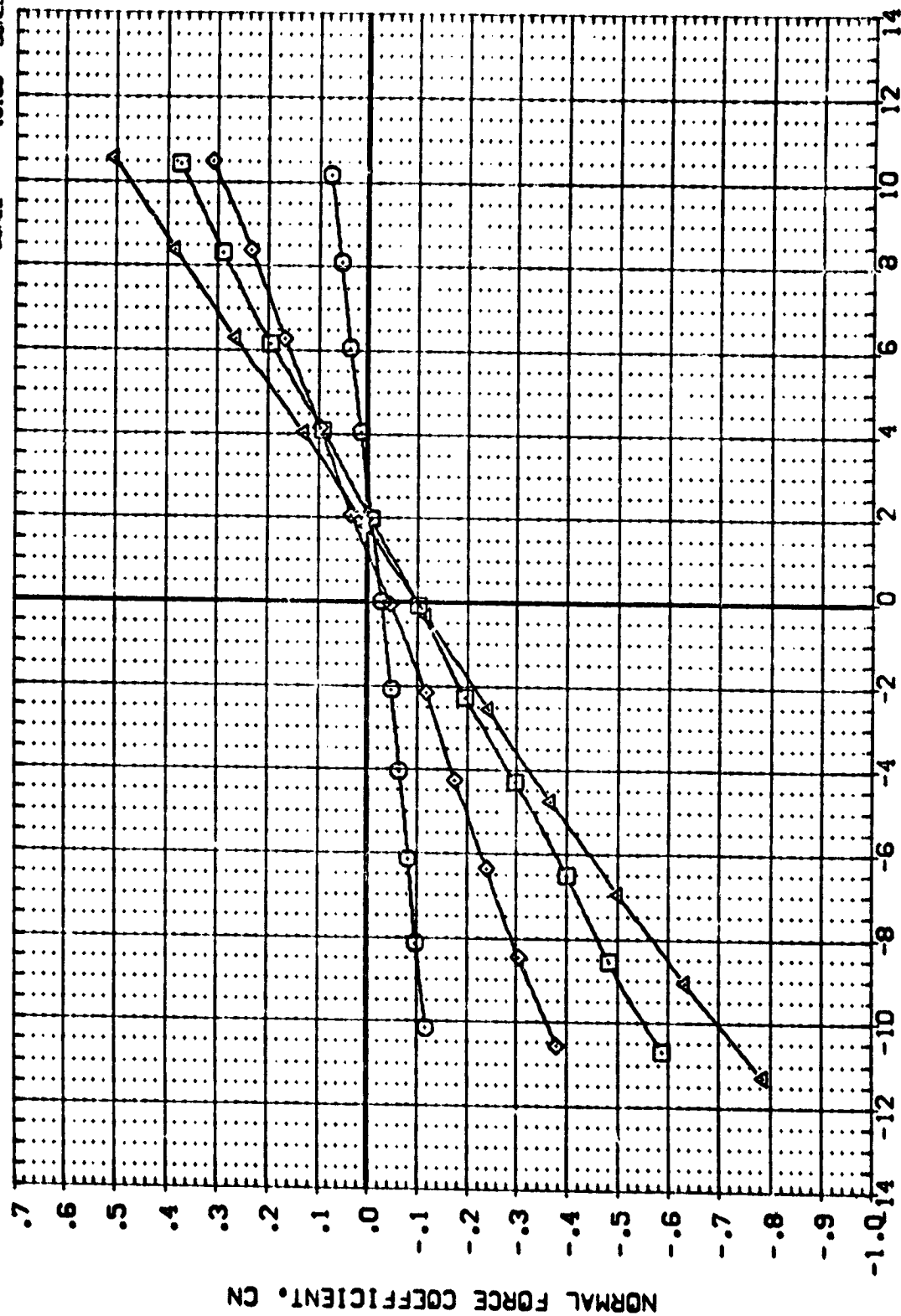
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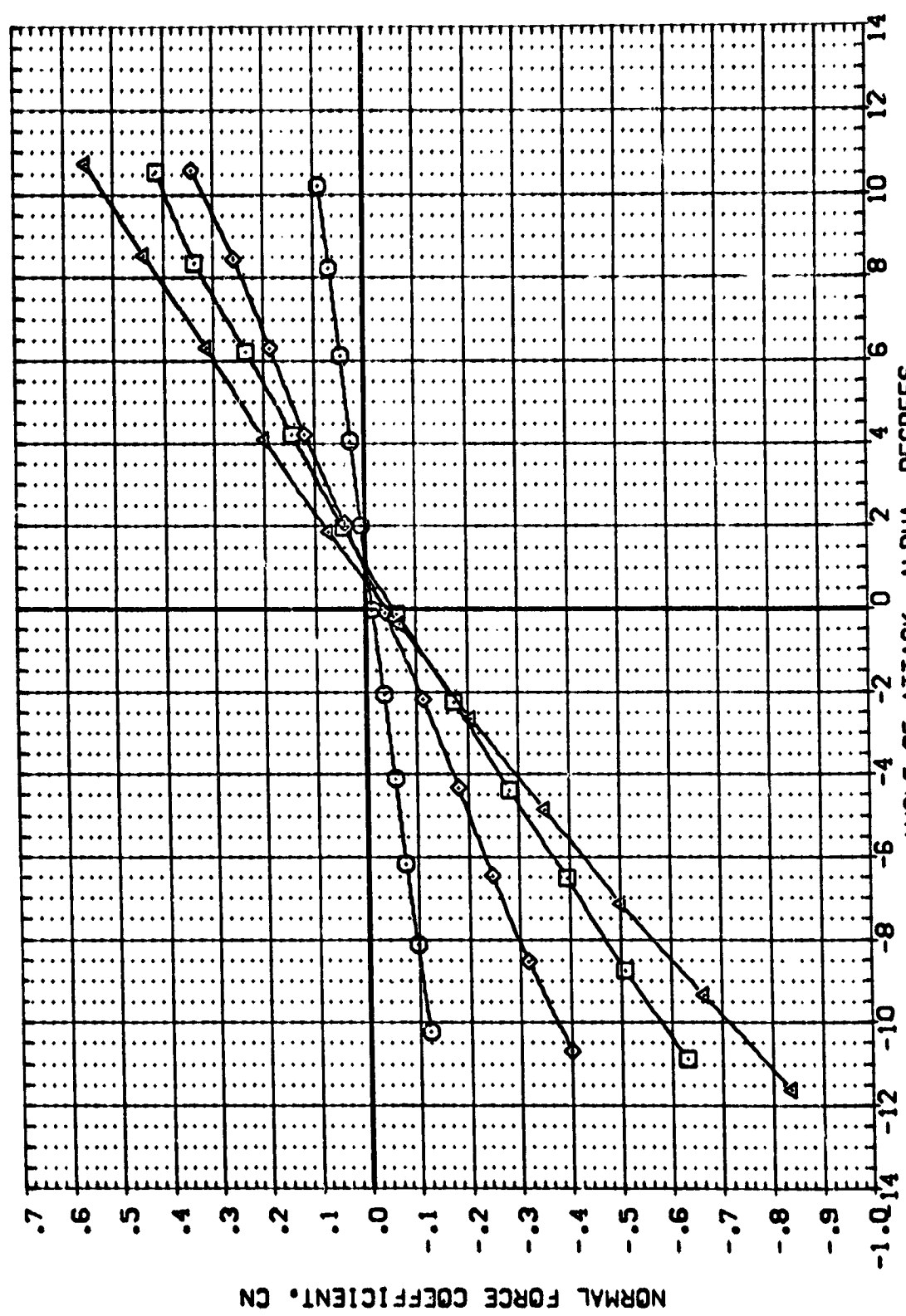


CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS
 (B)MACH = .80

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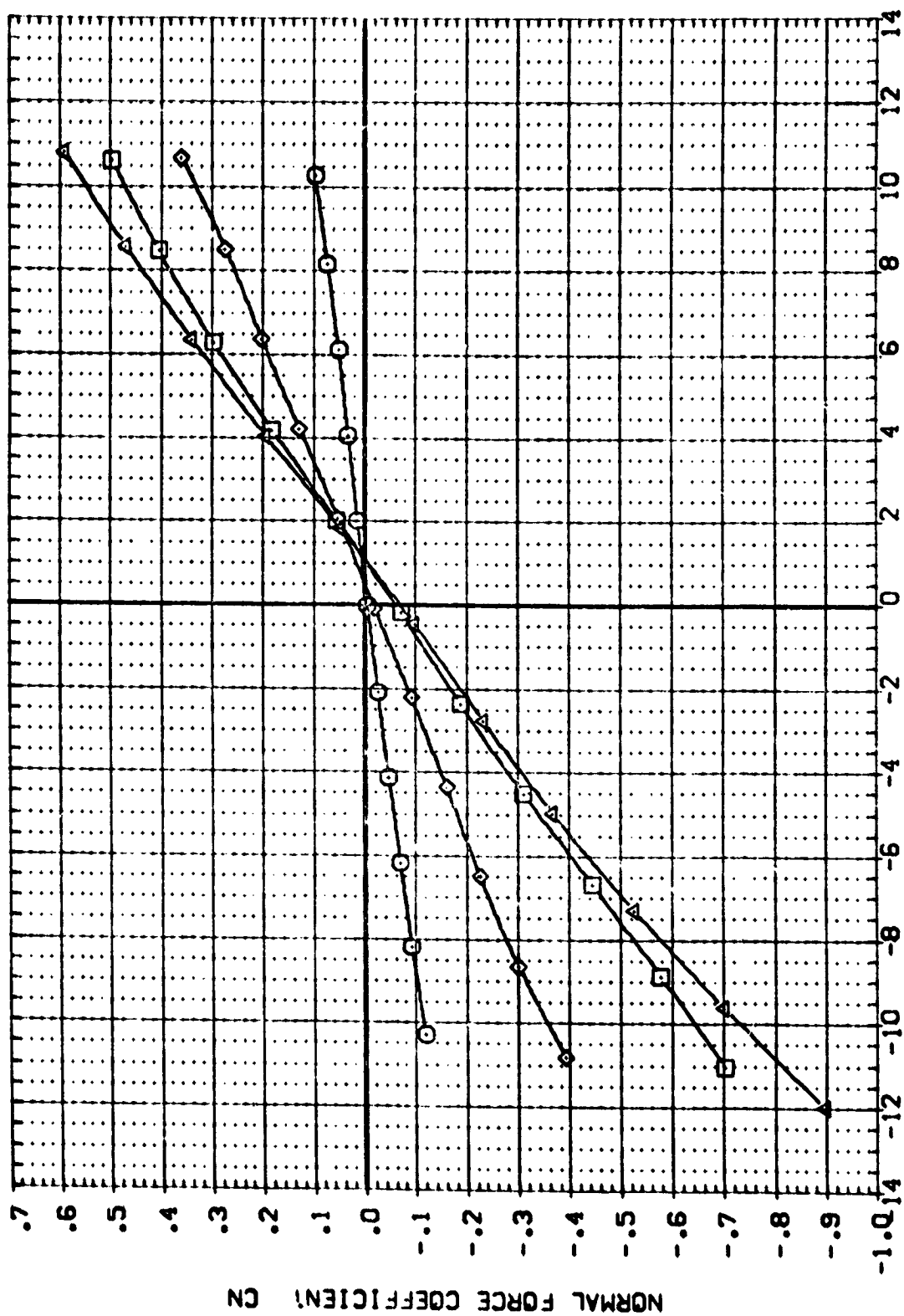
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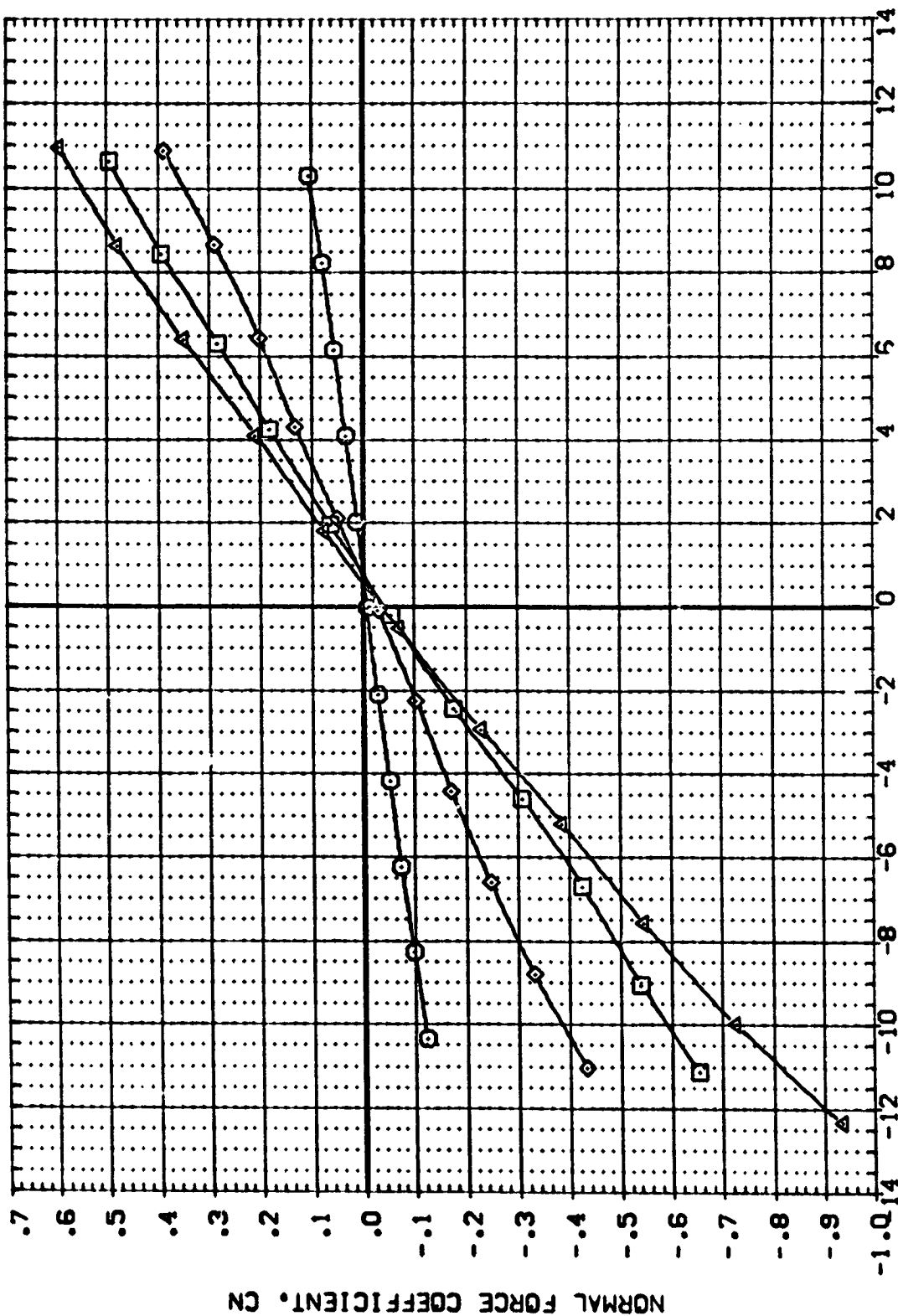


CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS
 (0)MACH = .98

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CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

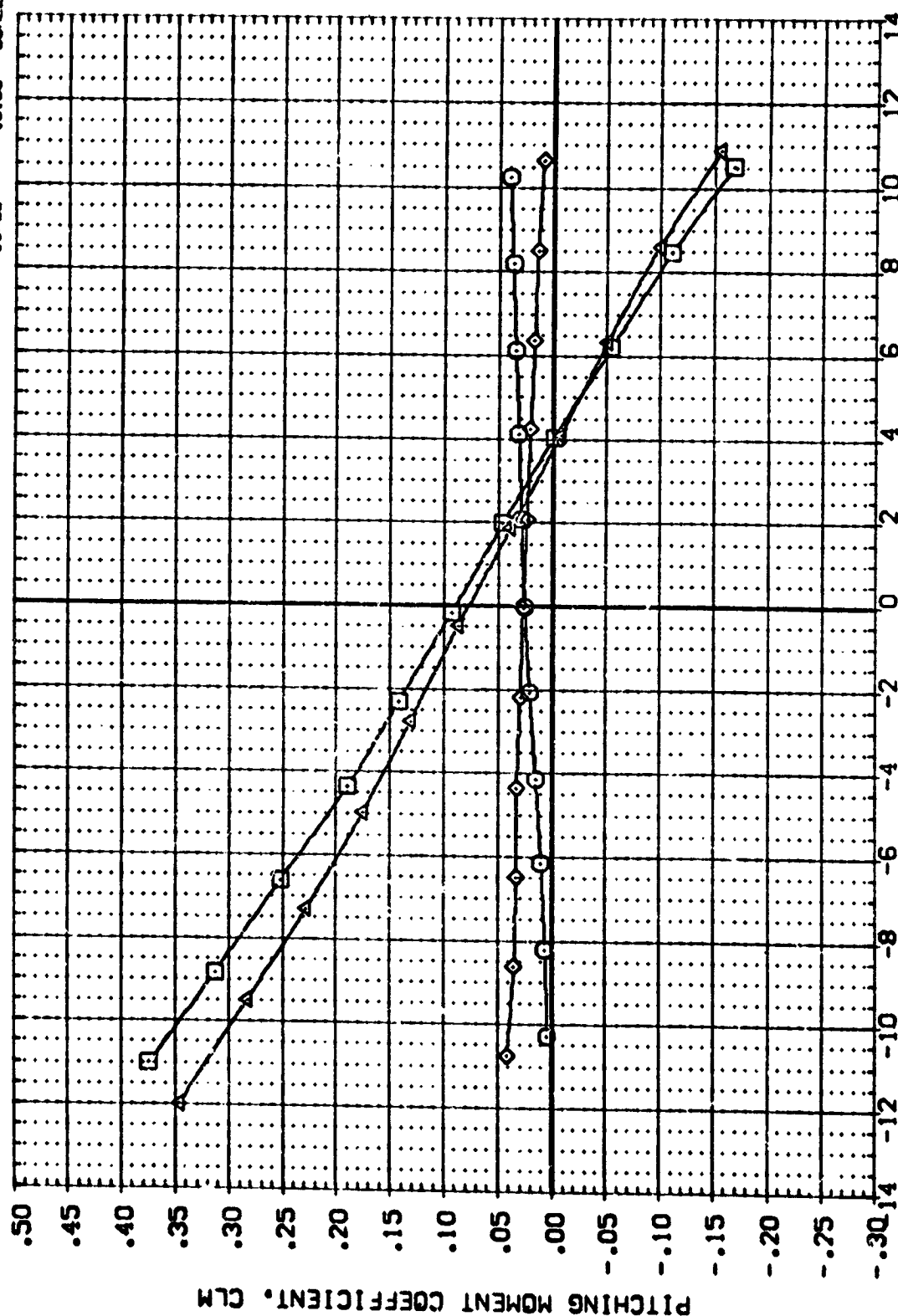
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SCALE .0150



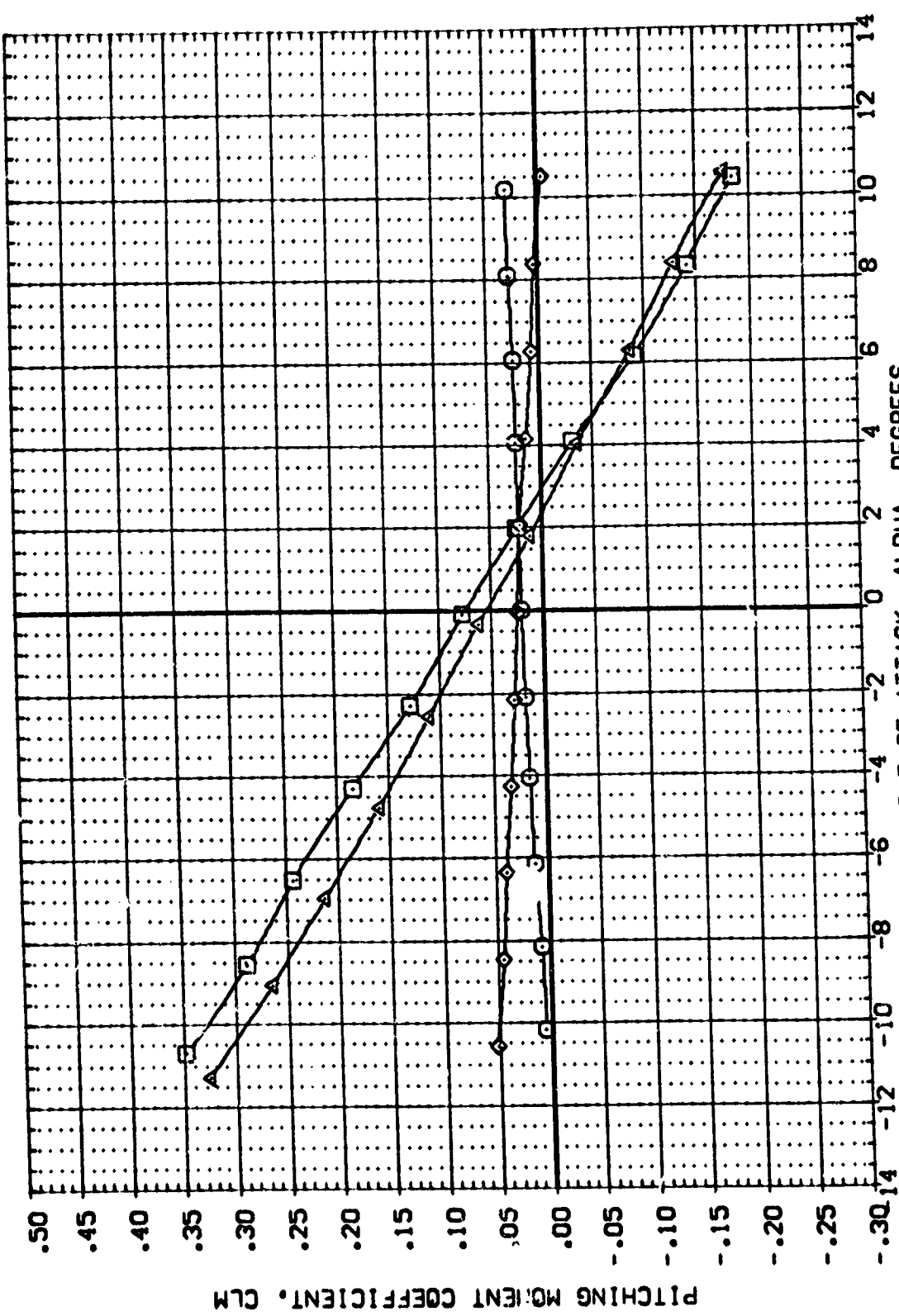
ANGLE OF ATTACK, ALPHA, DEGREES
CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 [B08012] LRC 8 TPT 657 [A4] TIP1
 [B08010] LRC 8 TPT 657 [A4] TIP1
 [B08014] LRC 8 TPT 657 [A4] TIP1
 [B08004] LRC 8 TPT 657 [A4] TIP1

BETA RUDDER
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REFERENCE INFORMATION
 SREF 2650.0000 SQ.FT.
 LREF 1250.3000 IN.OES
 BREF 1250.3000 IN.OES
 XMRP 976.0000 IN.OES
 YMRP 400.0000 IN.OES
 ZMRP 400.0000 IN.OES
 SCALE .0150



CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

(B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(B08012) LRC 8 TPT 667 [A4] TIP1

(B08010) LRC 8 TPT 667 [A4] TIP10

(B08011) LRC 8 TPT 667 [A4] TIP1SIP2

(B08004) LRC 8 TPT 667 [A4] TIP1SIP201

BEY RUDDER

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REFERENCE INFORMATION

SREF 2630.0000 50.000

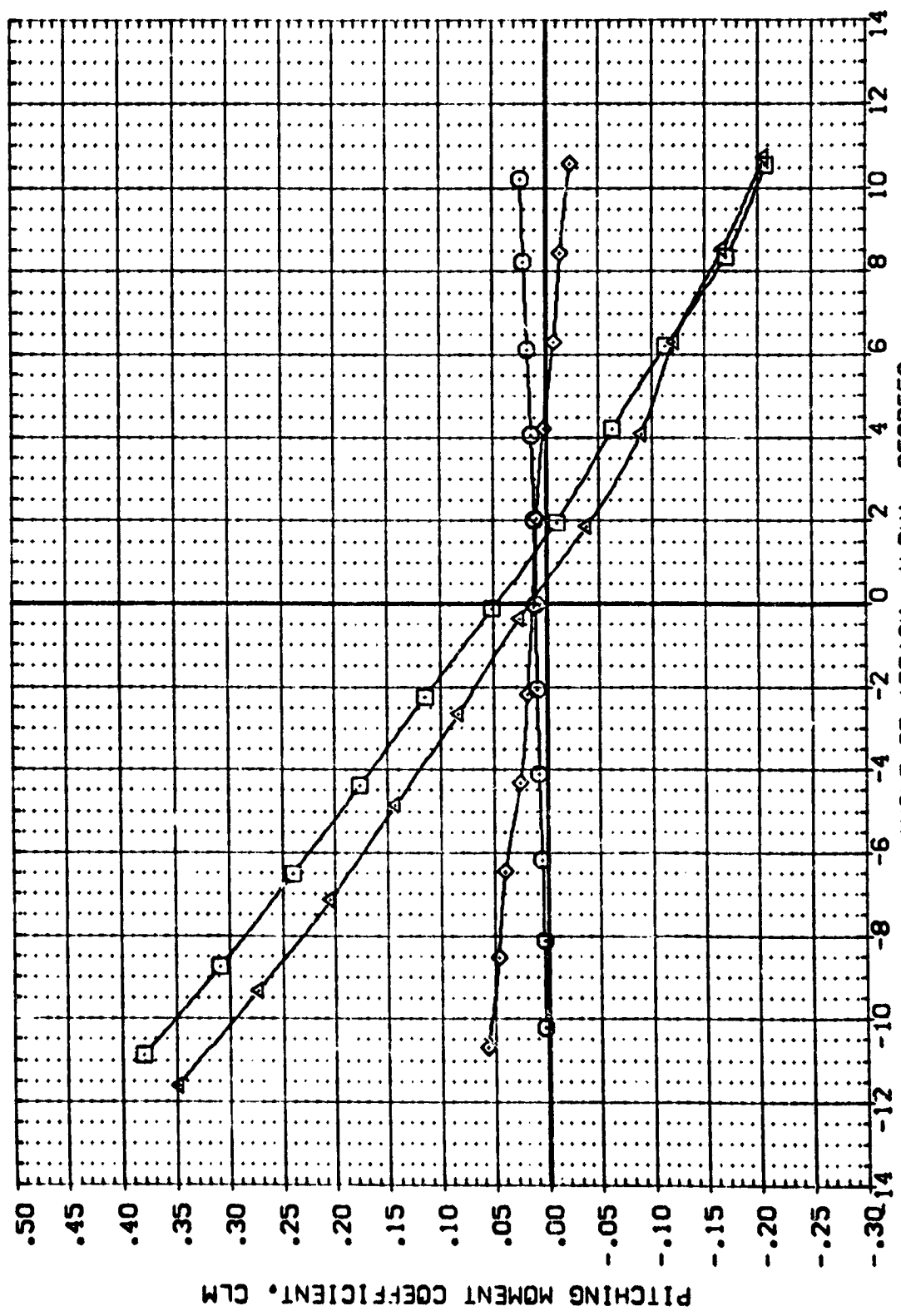
LREF 1290.3000 INCHES

BREF 1290.3000 INCHES

YMRP 576.0000 INCHES

ZMRP 400.0000 INCHES

SCALE .0150 INCHES



ANGLE OF ATTACK, ALPHA, DEGREES

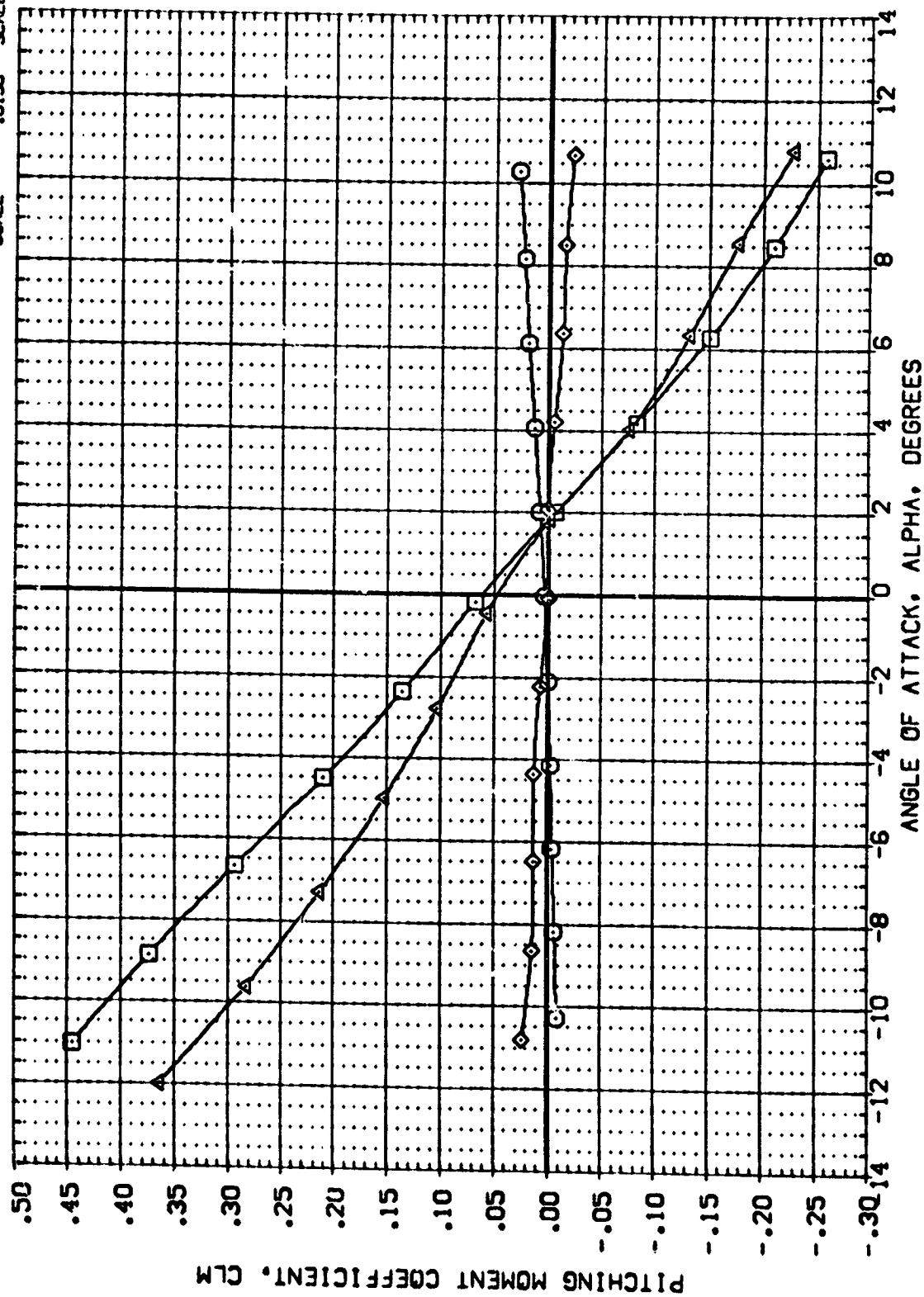
CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

(C)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B08012) LRC 8 TPT 657 I441 T1P1
 (B08010) LRC 8 TPT 657 I441 T1P101
 (B08014) LRC 8 TPT 657 I441 T1P1S1P2
 (B08004) LRC 8 TPT 657 I441 T1P1S1P201

BETA RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XREF 976.0000 INCHES
 YREF 400.0000 INCHES
 ZREF 400.0000 INCHES
 SCALE .0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

COMACH = .98

DATA SET SYMBO. CONFIGURATION DESCRIPTION

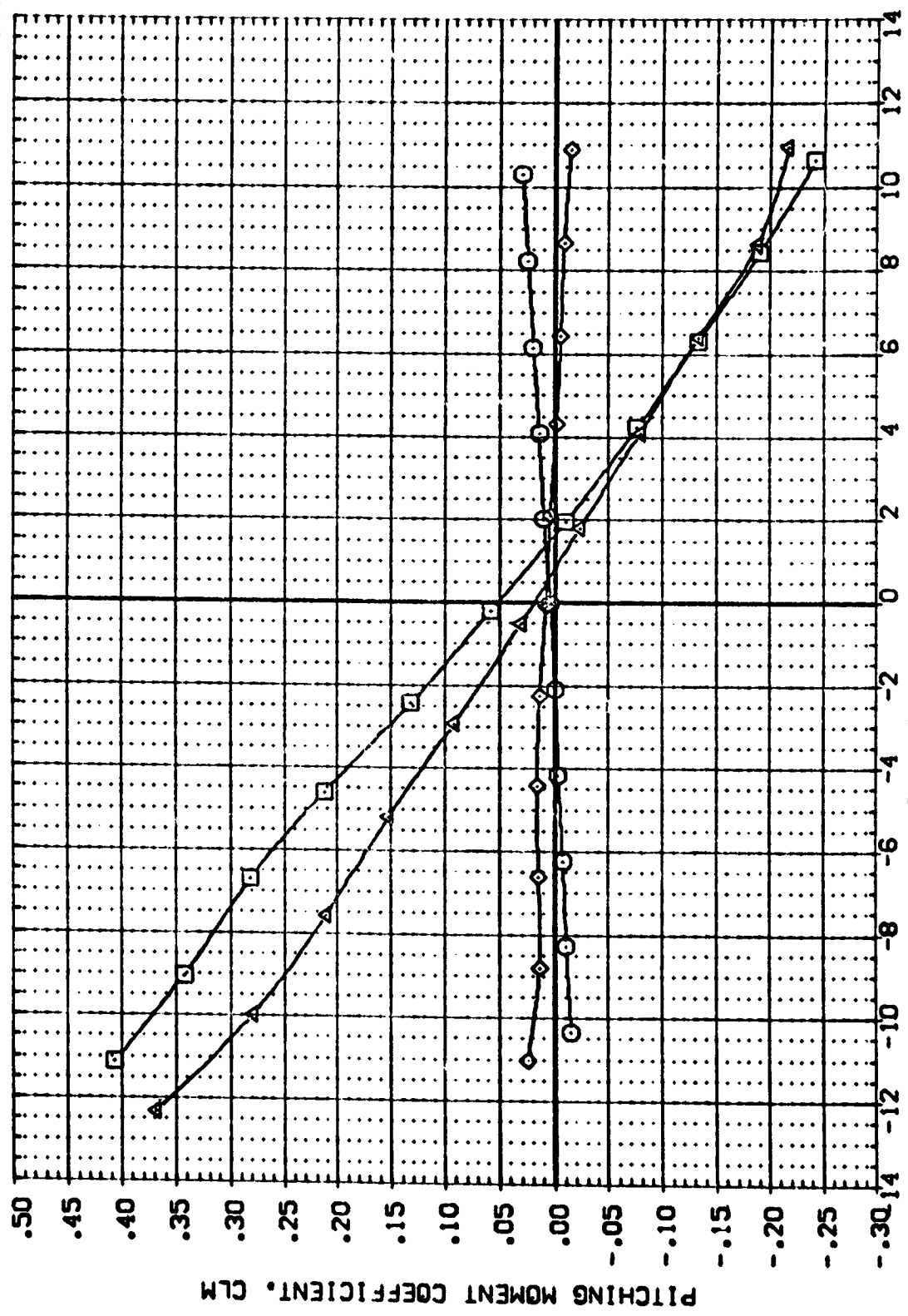
(B08012)	LRC 8 TPT 667 [A4]	TIP1
(B08010)	LRC 8 TPT 667 [A4]	TIP10
(B08014)	LRC 8 TPT 667 [A4]	TIP1P2
(B08004)	LRC 8 TPT 667 [A4]	TIP1SIP20

BETA

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REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	1250.3000	INO-ES
BREF	1250.3000	INO-ES
XMRP	976.0000	INO-ES
YMRP	.0000	INO-ES
ZMRP	400.0000	INO-ES
SCALE	.0150	SCALE



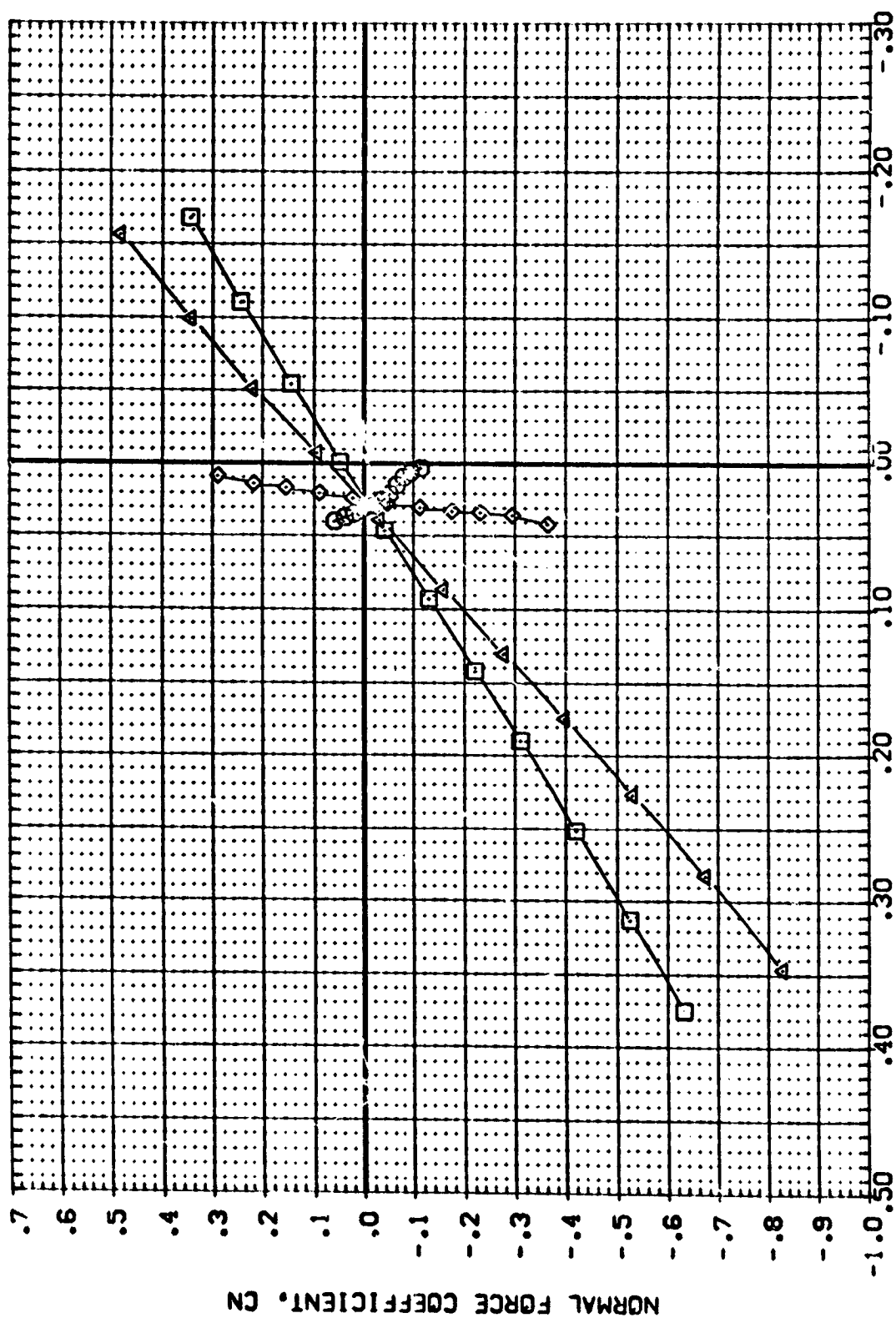
CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 1.20

DATA SET SYMBL. CONFIGURATION DESCRIPTION
 (B08012) LRC 8 TPT 667 [A4] T1P1
 (B08010) LRC 8 TPT 667 [A4] T1P1D1
 (B08014) LRC 8 TPT 667 [A4] T1P1S1P2
 (B08004) LRC 8 TPT 667 [A4] T1P1S1P201

BETA RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS
 PITCHING MOMENT COEFFICIENT, CLM

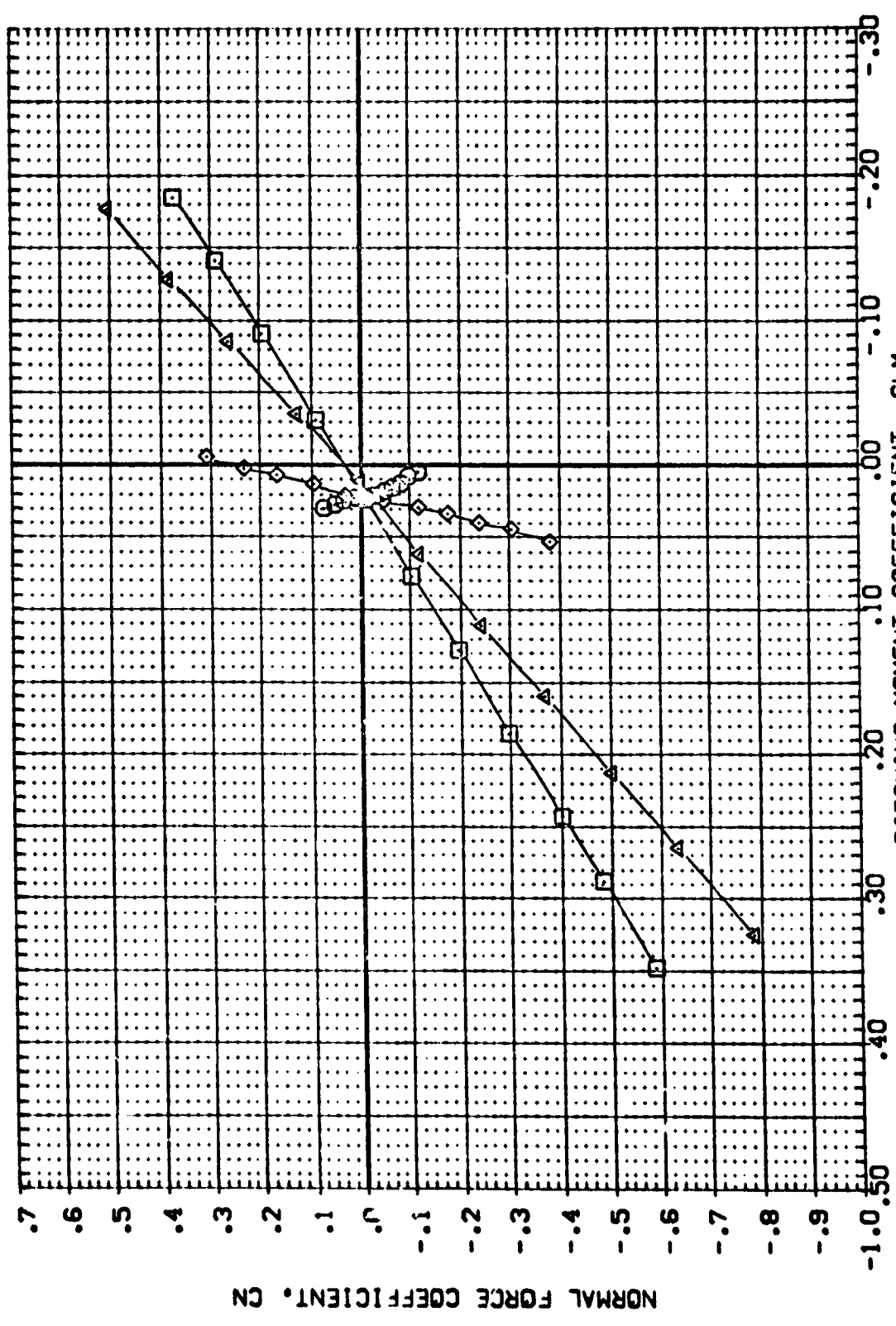
(A)MACH = .60



DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 LRC 8 TPT 667 [A4] T1P1
 LRC 8 TPT 667 [A4] T1P101
 LRC 8 TPT 667 [A4] T1P1S1P2
 LRC 8 TPT 667 [A4] T1P1S1P201

BETA RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1250.3000 INCHES
 BREF 1250.3000 INCHES
 XMRP 576.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

(B)MACH = .80

DATA SET SYMBOL. CONFIGURATION DESCRIPTION

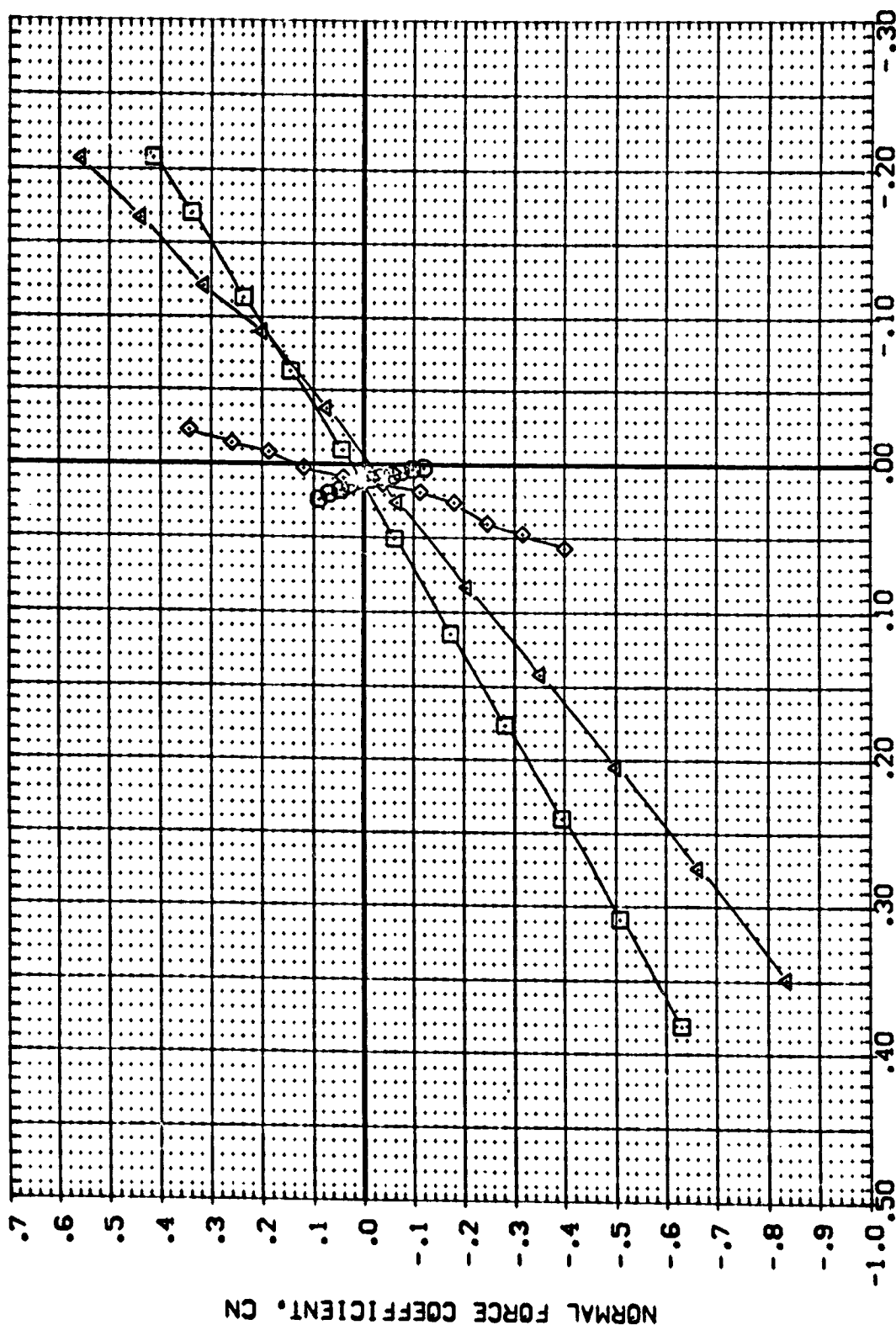
(B08012)	LRC 8 TPT 657	IA4	TIP1
(B08010)	LRC 8 TPT 657	IA4	TIP101
(B08014)	LRC 8 TPT 657	IA4	TIP1SIP2
(B08004)	LRC 8 TPT 657	IA4	TIP1SIP201

BETA RUDDER

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.000	.000
.000	.000

REFERENCE INFORMATION

SREF	2690.0000	50. FT.
LREF	1290.3000	INC-ES
BREF	1290.3000	INC-ES
YMRP	976.0000	INC-ES
ZMRP	400.0000	INC-ES
SCALE	.0150	SCALE



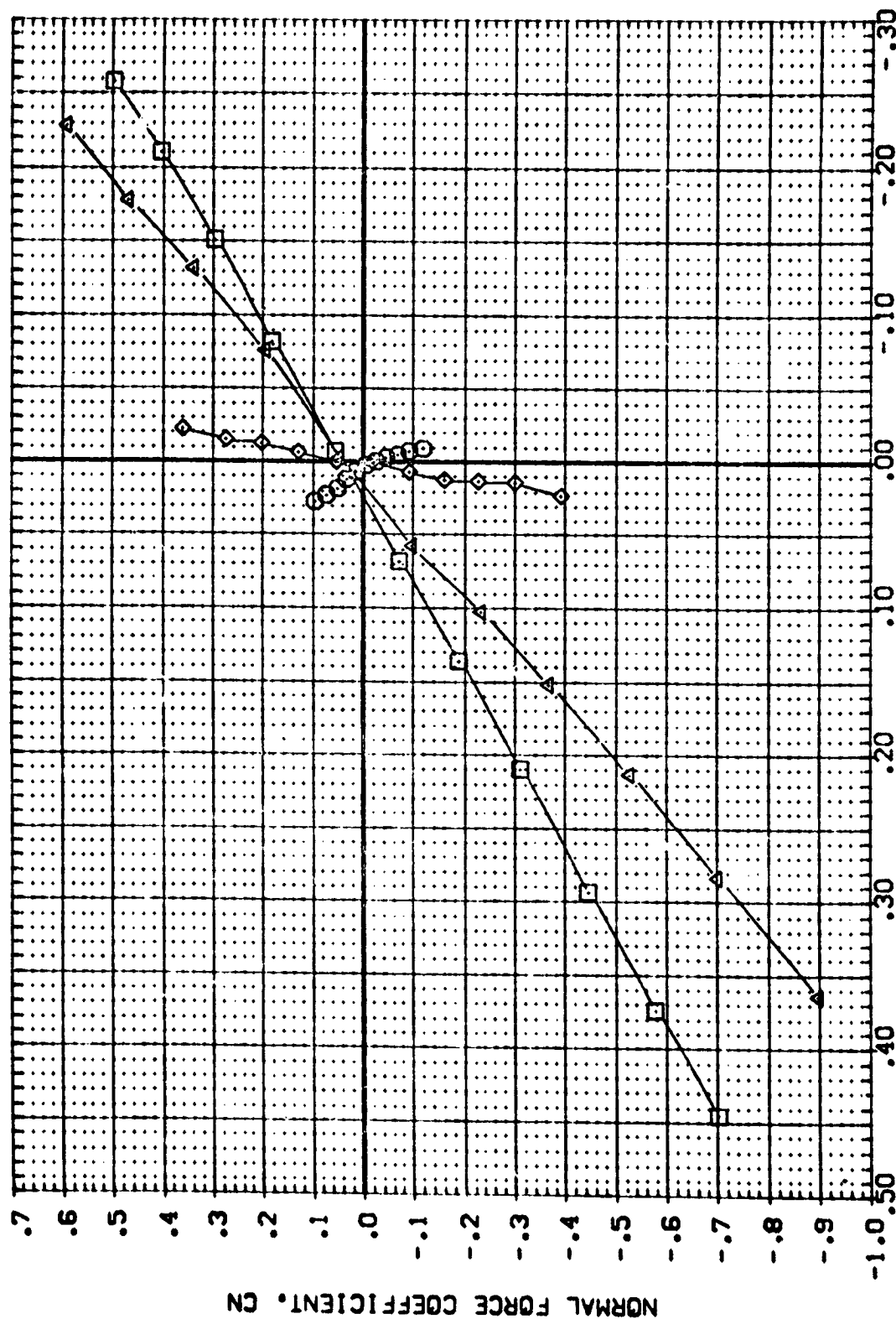
CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

(C)MACH = .90

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 (B08012) LRC 8 TPT 657 [A4] TIP1
 (B08010) LRC 8 TPT 657 [A4] TIP101
 (B08014) LRC 8 TPT 657 [A4] TIP1SIP2
 (B08004) LRC 8 TPT 657 [A4] TIP1SIP201

BETA RUDDER
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REFERENCE INFORMATION
 SREF 2680.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

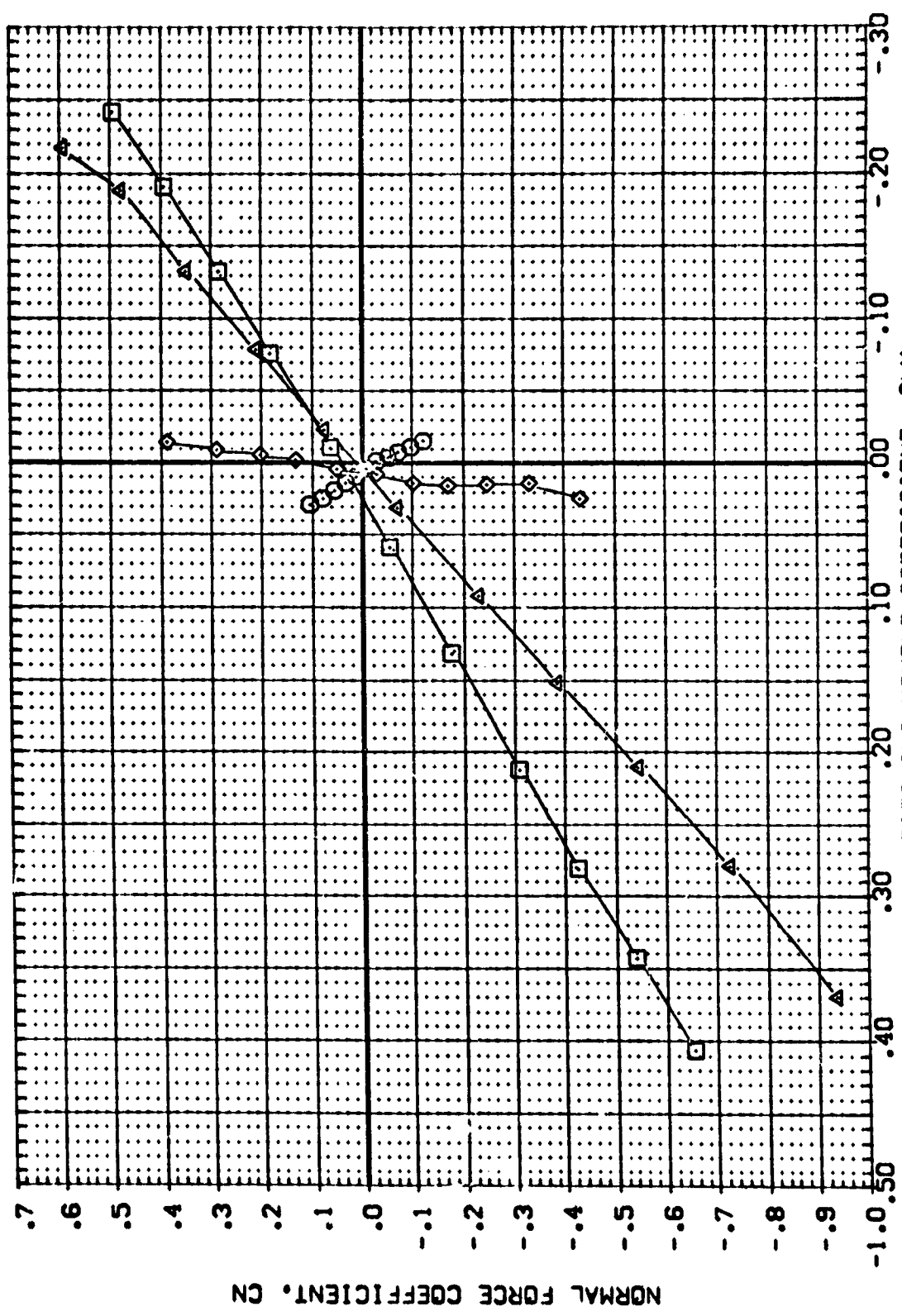
(O)MACH = .98



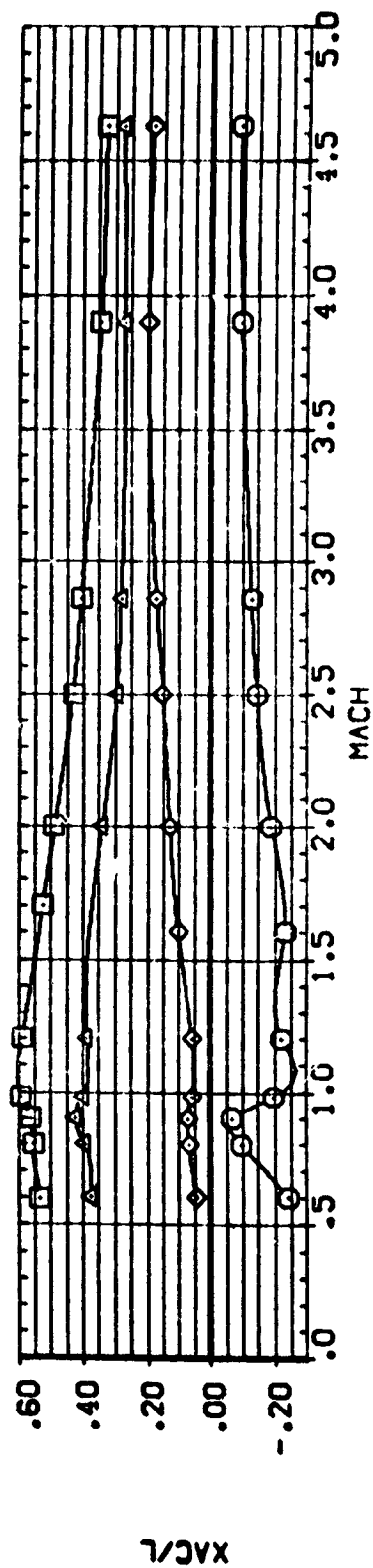
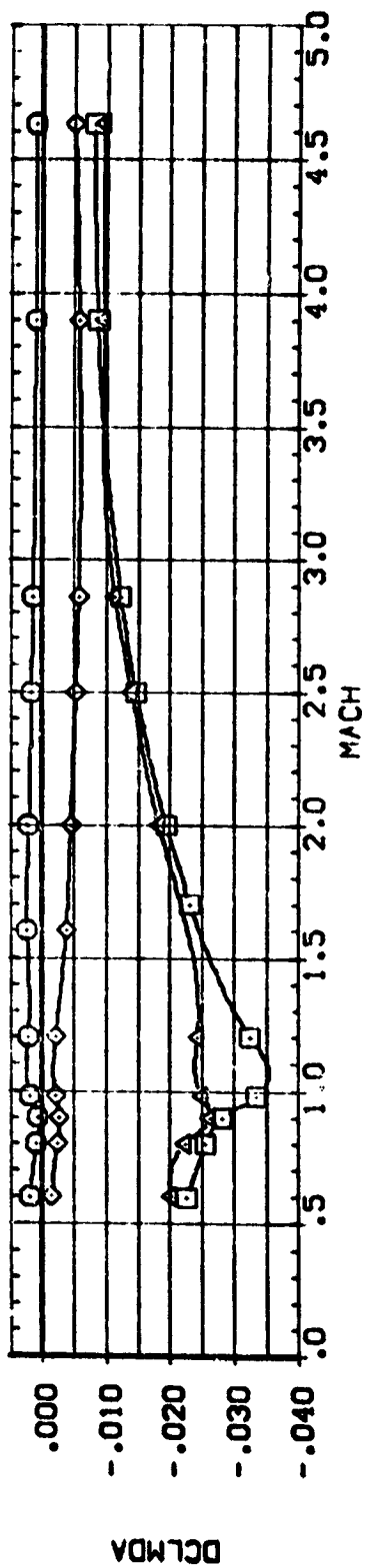
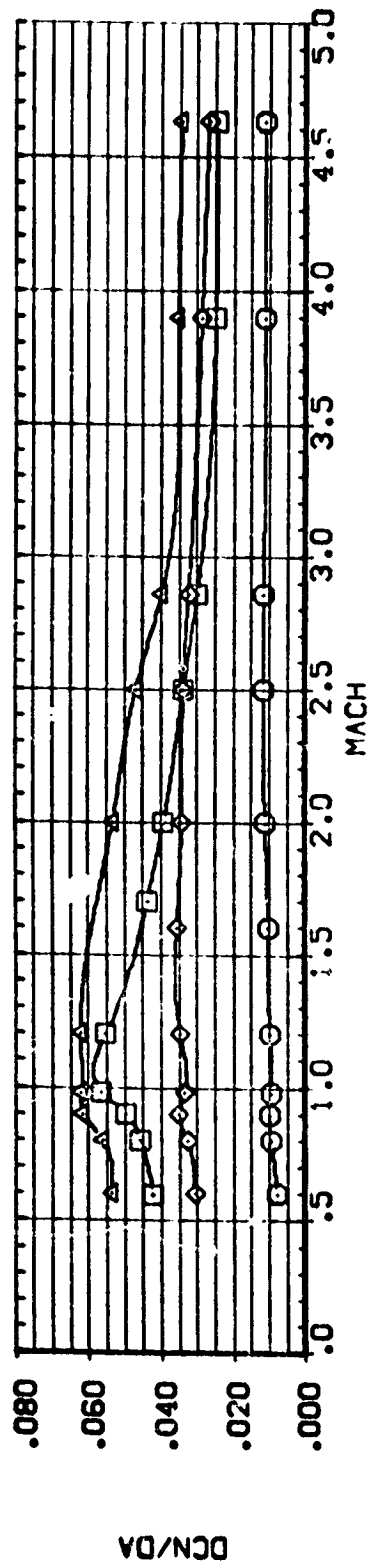
DATA SET SYMBOL CONFIGURATION DESCRIPTION
[B08012] LRC 8 TPT 657 [A1] TIP1
[B08010] LRC 8 TPT 657 [A1] TIP101
[B08014] LRC 8 TPT 657 [A1] TIP1SIP2
[B08004] LRC 8 TPT 657 [A1] TIP1SIP201

BETA RUDDER
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.000 .000
.000 .000

REFERENCE INFORMATION
SREF 2550.0000 SQ.FT.
LREF 1250.3000 IN-ES
BREF 1250.3000 IN-ES
XMRP 976.0000 IN-ES
YMRP .0000 IN-ES
ZMRP 400.0000 IN-ES
SCALE .0150 SCALE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BE: A	RUDER	REFERENCE INFORMATION
(G08012)	LARC TESTS [A4] AND [A42A/B]	.000	.000	SREF 2630.0000 SD.FT.
(G08010)	LARC TESTS [A4] AND [A42A/B]	.000	.000	LREF 1290.3000 INC-ES
(G08014)	LARC TESTS [A4] AND [A42A/B]	.000	.000	BREF 1290.3000 INC-ES
(G08004)	LARC TESTS [A4] AND [A42A/B]	.000	.000	XTRP 976.0000 INC-ES
				YTRP 400.0000 INC-ES
				ZTRP 400.0000 INC-ES
				SCALE .0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL
 (C08012)
 (C08010)
 (C08014)
 (C08004)

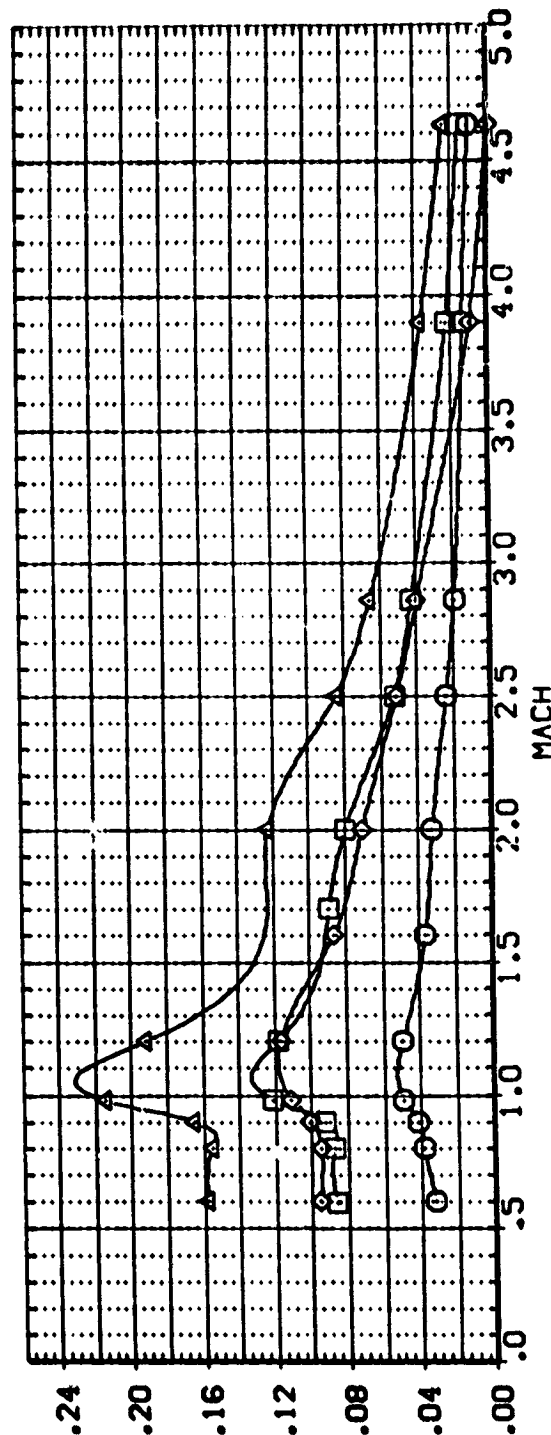
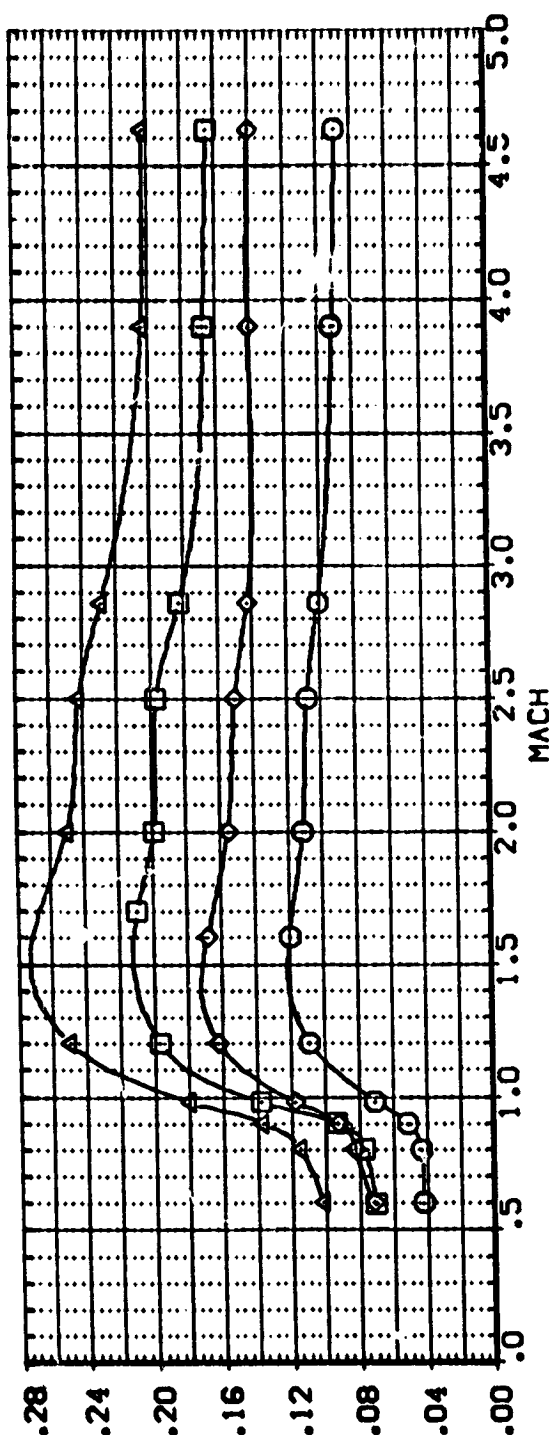
CONFIGURATION DESCRIPTION
 LARC TESTS [A1] AND [A42A/B]
 LARC TESTS [A1] AND [A42A/B]
 LARC TESTS [A1] AND [A42A/B]

TIP1
 TIP101
 TIP151P2
 TIP151P201

BETA
 .000
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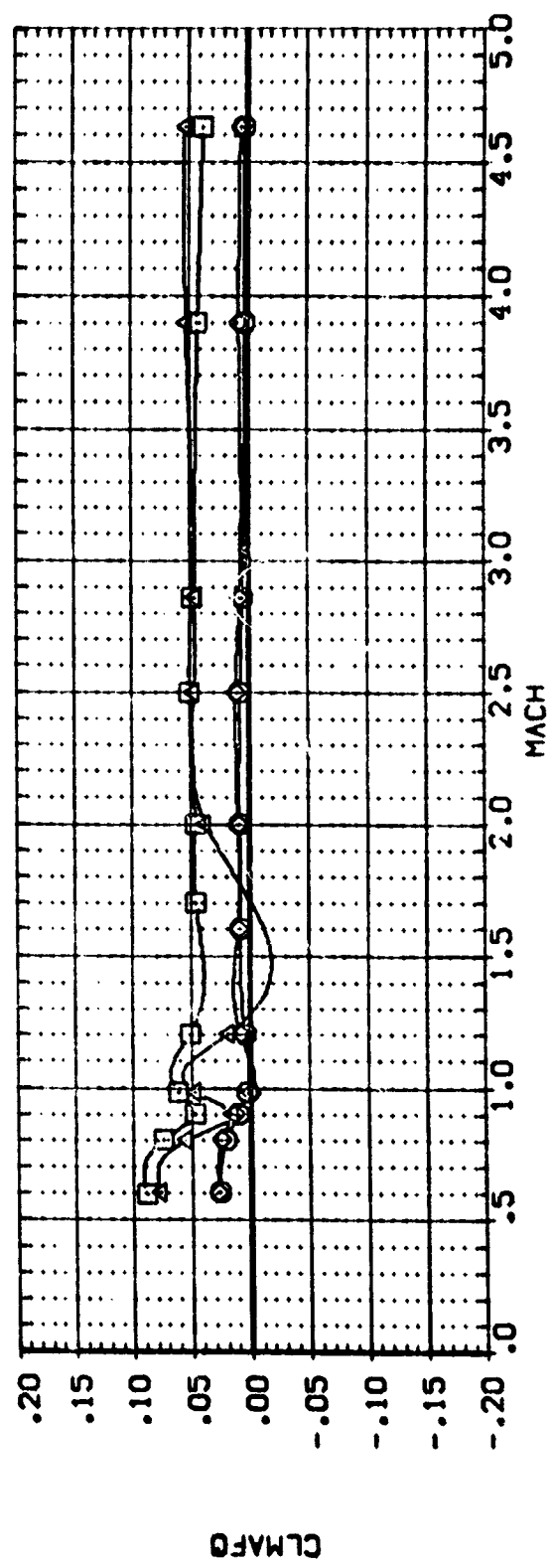
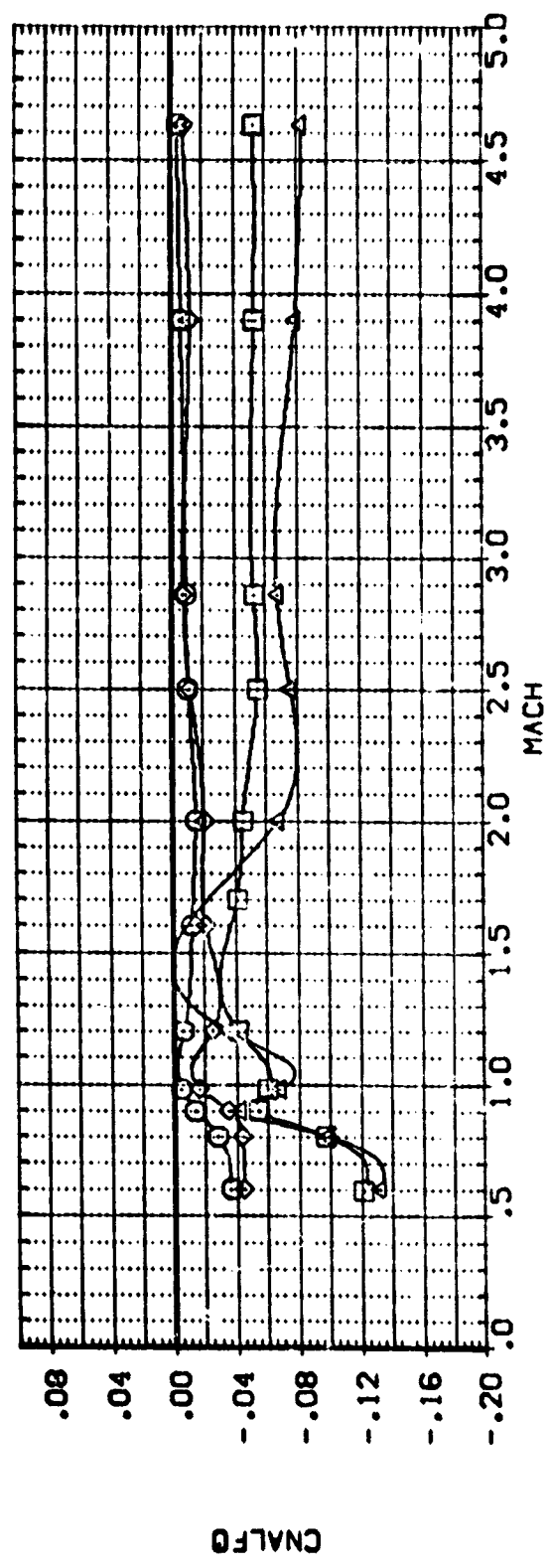
RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 SD.F.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XPRP 976.0000 INCHES
 YPRP 400.0000 INCHES
 ZPRP 400.0000 INCHES
 SCALE .0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PLUM	REFERENCE INFORMATION
(C08012)	LARC TESTS [A1] AND [A42A/B]	.000	.000	SREF 2650.0000
(C08010)	LARC TESTS [A1] AND [A42A/B]	.000	.000	LREF 1250.3000
(C08014)	LARC TESTS [A1] AND [A42A/B]	.000	.000	BREF 1250.3000
(C08004)	LARC TESTS [A1] AND [A42A/B]	.000	.000	XPRP 976.0000
				YPRP 400.0000
				ZPRP 100.0000
				SCALE .0150

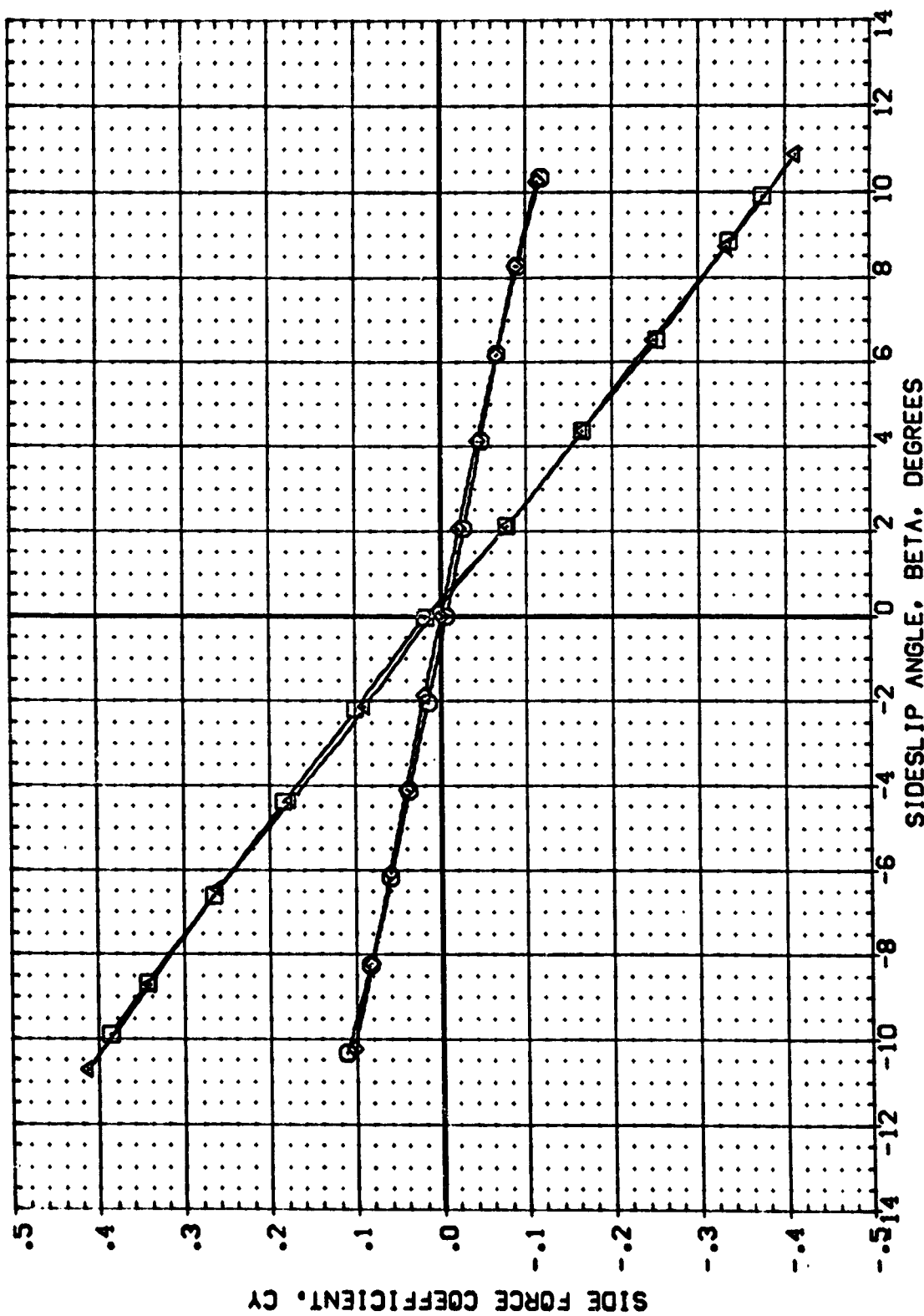


CONFIGURATION BUILDUP EFFECT ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808013) LRC 8 TPT 657 IA41 T1P1
 (808011) LRC 8 TPT 657 IA41 T1P101
 (808015) LRC 8 TPT 657 IA41 T1P1S1P2
 (808003) LRC 8 TPT 657 IA41 T1P1S1P201

ALPHA RUDDER
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 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.0000 IN.-ES
 BREF 1290.0000 IN.-ES
 XMRP 576.0000 IN.-ES
 YMRP .0000 IN.-ES
 ZMRP 400.0000 IN.-ES
 SCALE .0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

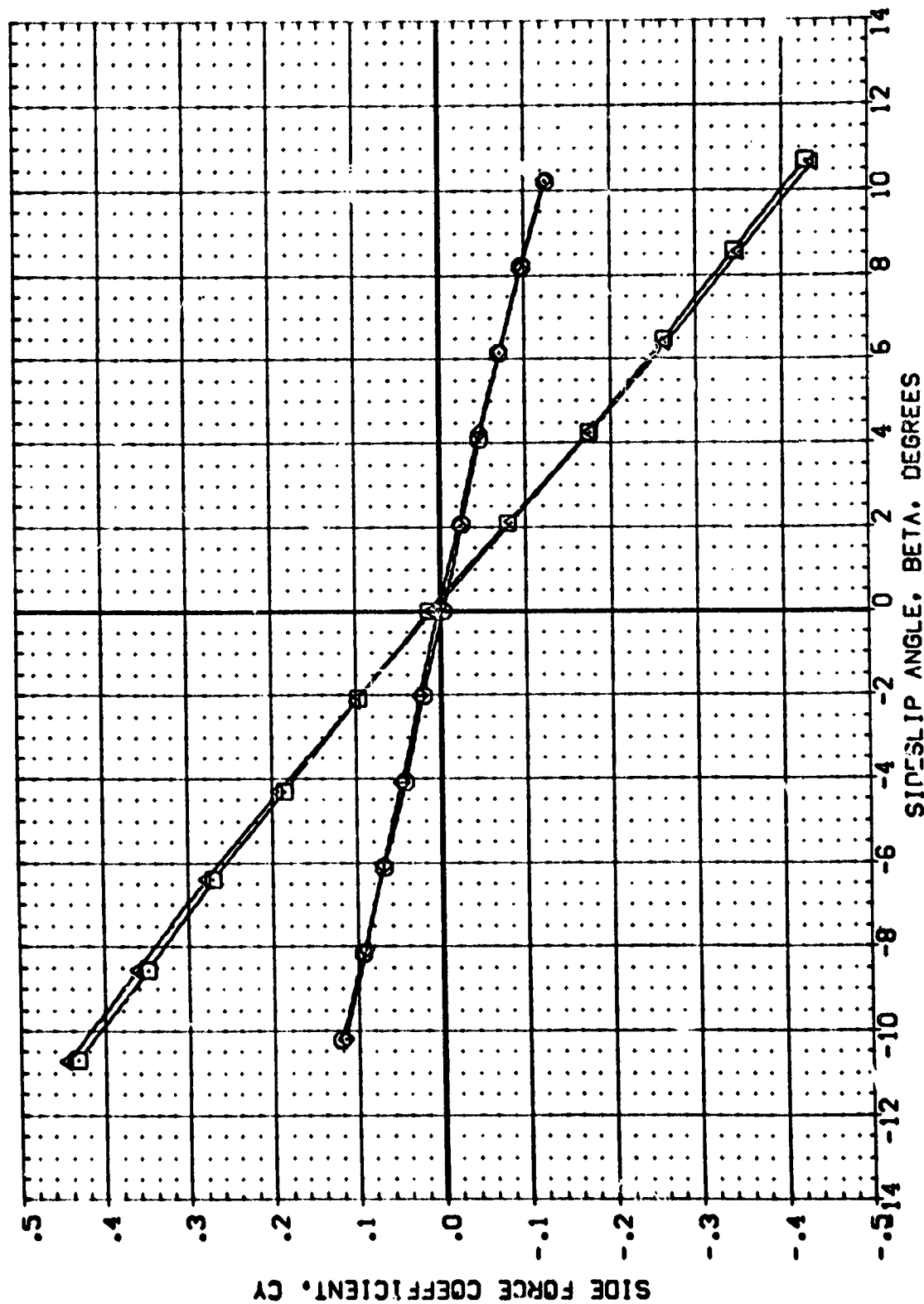
(A)MACH = .60



REFERENCE INFORMATION
 SREF 2630.0000 50.FT.
 LREF 1250.3000 INCHES
 BREF 1250.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

ALP A RUDDER
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DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808013) LRC 8 TPT 667 [A4] T1P1
 (808011) LRC 8 TPT 667 [A4] T1P101
 (808015) LRC 8 TPT 667 [A4] T1P1S1P2
 (808003) LRC 8 TPT 667 [A4] T1P1S1P201



CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

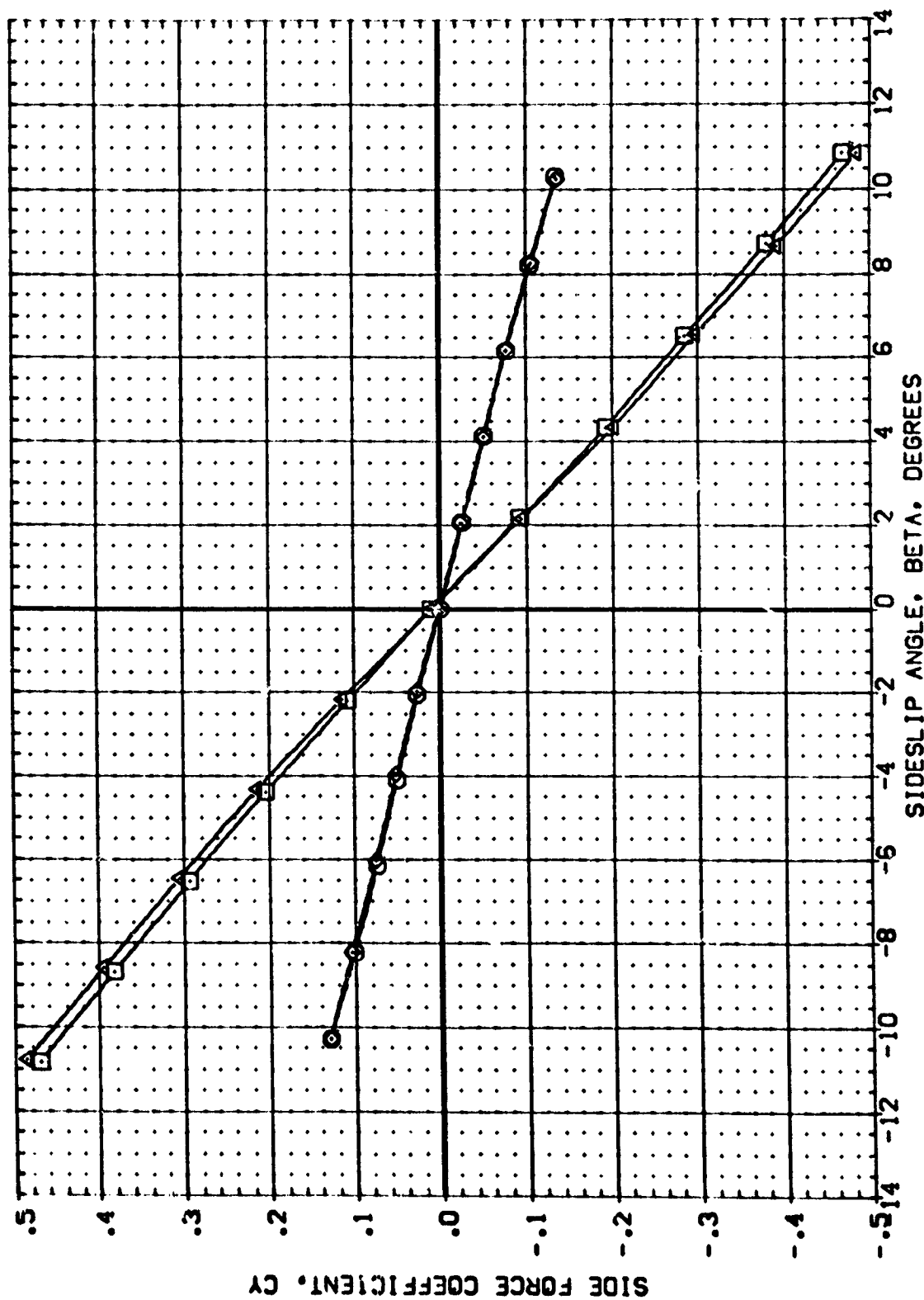
(B)MACH = .80



REFERENCE INFORMATION
SREF 2650.0000 SQ.FT.
LREF 1250.3000 IN-ES
BREF 1250.3000 IN-ES
XREF 976.0000 IN-ES
YREF 0.0000 IN-ES
ZREF 400.0000 IN-ES
SCALE .0150

ALPHA RUDDER
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DATA SET SYMBOL CONFIGURATION DESCRIPTION
[B08013] LRC 8 TPT 657 [A4] T1P1
[B08011] LRC 8 TPT 657 [A4] T1P101
[B08015] LRC 8 TPT 657 [A4] T1P1S1P2
[B08003] LRC 8 TPT 657 [A4] T1P1S1P201



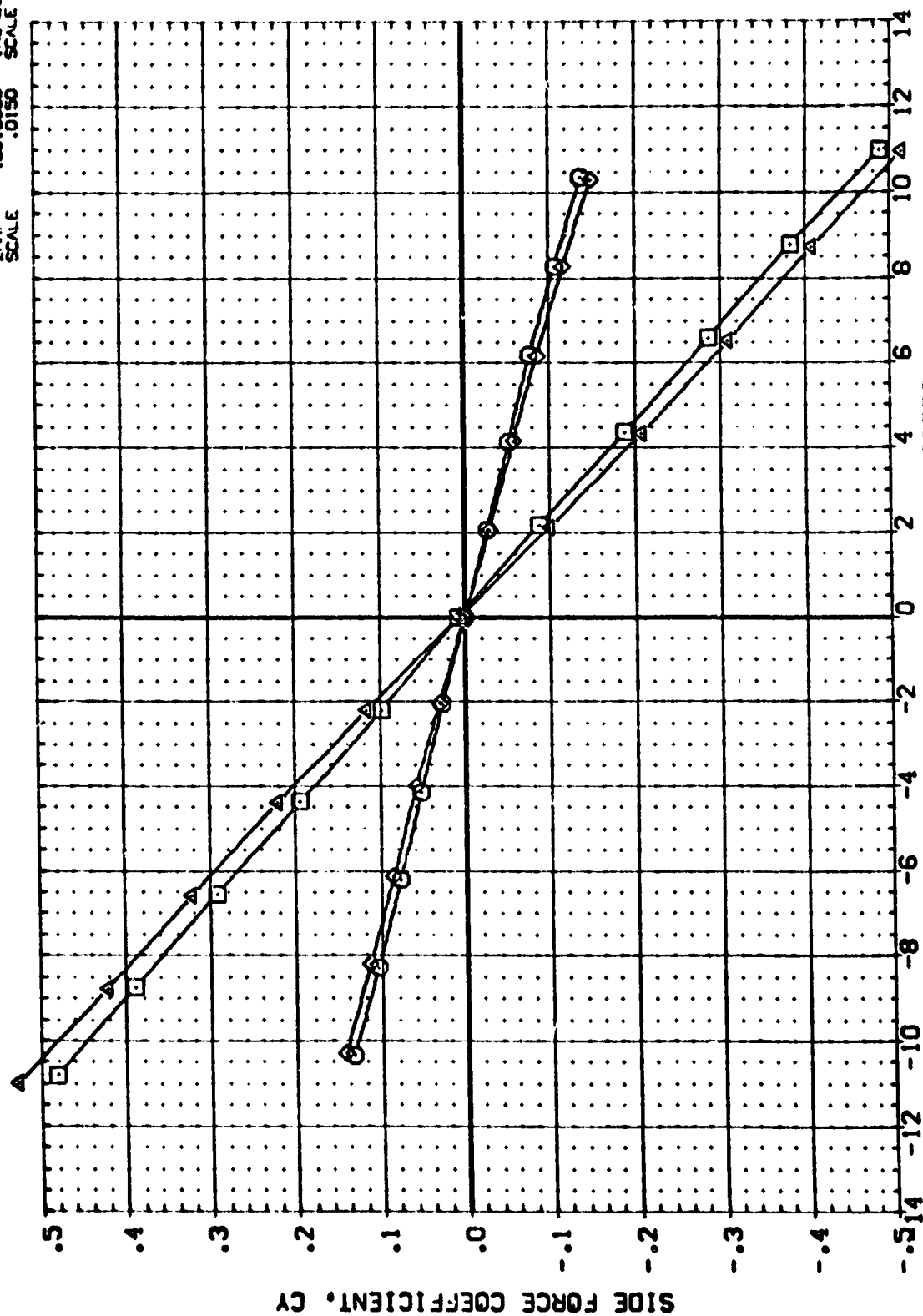
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

(C)MACH = .90

DATA SET SYMB. CONFIGURATION DESCRIPTION
 (B08013) LRC 8 TPT 657 [A4] TIP [0]
 (B08011) LRC 8 TPT 657 [A4] TIP [0]
 (B08015) LRC 8 TPT 657 [A4] TIP [SIP2]
 (B08003) LRC 8 TPT 657 [A4] TIP [SIP201]

ALPHA RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 50.0 FT.
 LREF 1290.3000 IN-ES
 BREF 1290.3000 IN-ES
 XPRP 576.0000 IN-ES
 YPRP 400.0000 IN-ES
 ZPRP 400.0000 IN-ES
 SCALE .0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

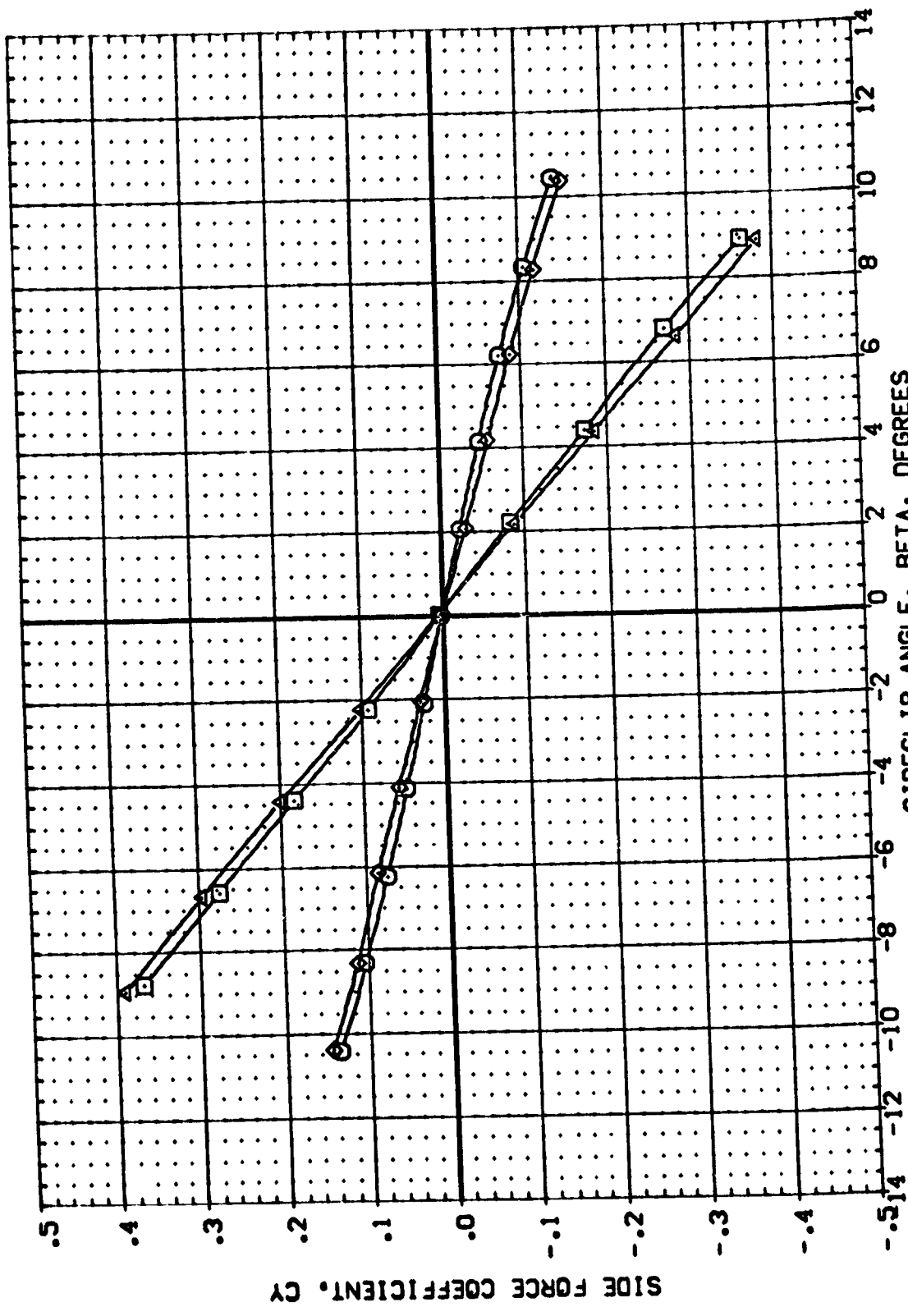
(0)MACH = .98



REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150

ALPHA RUDDER
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DATA SET SYMBL. CONFIGURATION DESCRIPTION
[808013] LRC 8 TPT 667 IA41 T1P1
[808011] LRC 8 TPT 667 IA41 T1P101
[808015] LRC 8 TPT 667 IA41 T1P1S1P2
[808003] LRC 8 TPT 667 IA41 T1P1S1P201



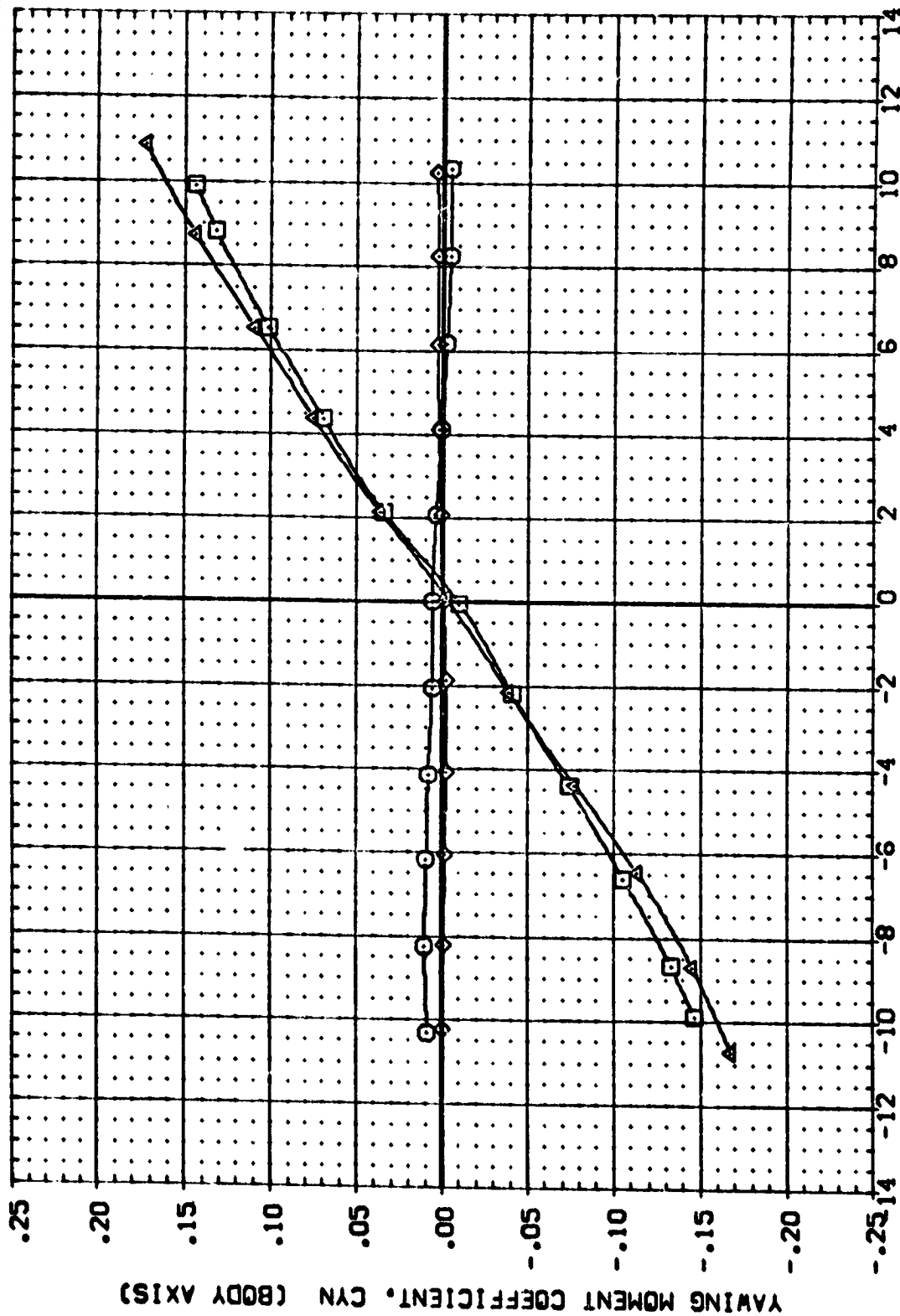
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

(E)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B08013) LRC 8 TPT 657 1A41 TIP1
 (B08011) LRC 8 TPT 657 1A41 TIP101
 (B08015) LRC 8 TPT 657 1A41 TIP1SIP2
 (B08003) LRC 8 TPT 657 1A41 TIP1SIP201

ALPHA RUDDER
 .003 .000
 .000 .000
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 AREF 1290.3000 IN-ES
 BREF 1290.3000 IN-ES
 XMRP 976.0000 IN-ES
 YMRP 400.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150



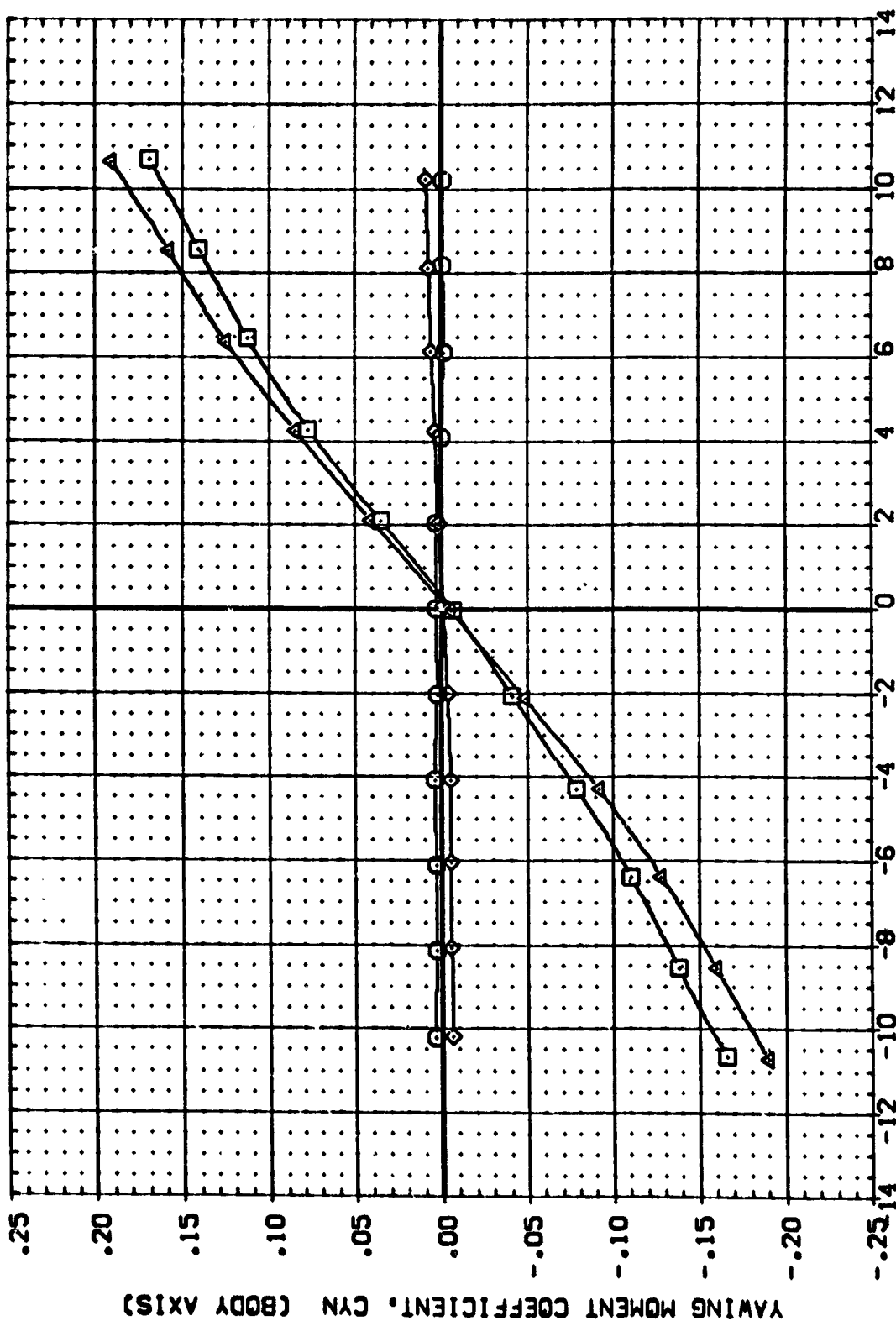
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [828013] LRC 8 TPT 657 [A4] TIP1
 [828011] LRC 8 TPT 657 [A4] TIP101
 [828015] LRC 8 TPT 657 [A4] TIP1SIP2
 [828003] LRC 8 TPT 657 [A4] TIP1SIP201

ALPHA RUDDER
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REFERENCE INFORMATION
 SREF 2680.0000 50.0 FT.
 LREF 1290.3000 IN-ES
 BREF 1290.3000 IN-ES
 YMRP 576.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

(B)MACH = .80

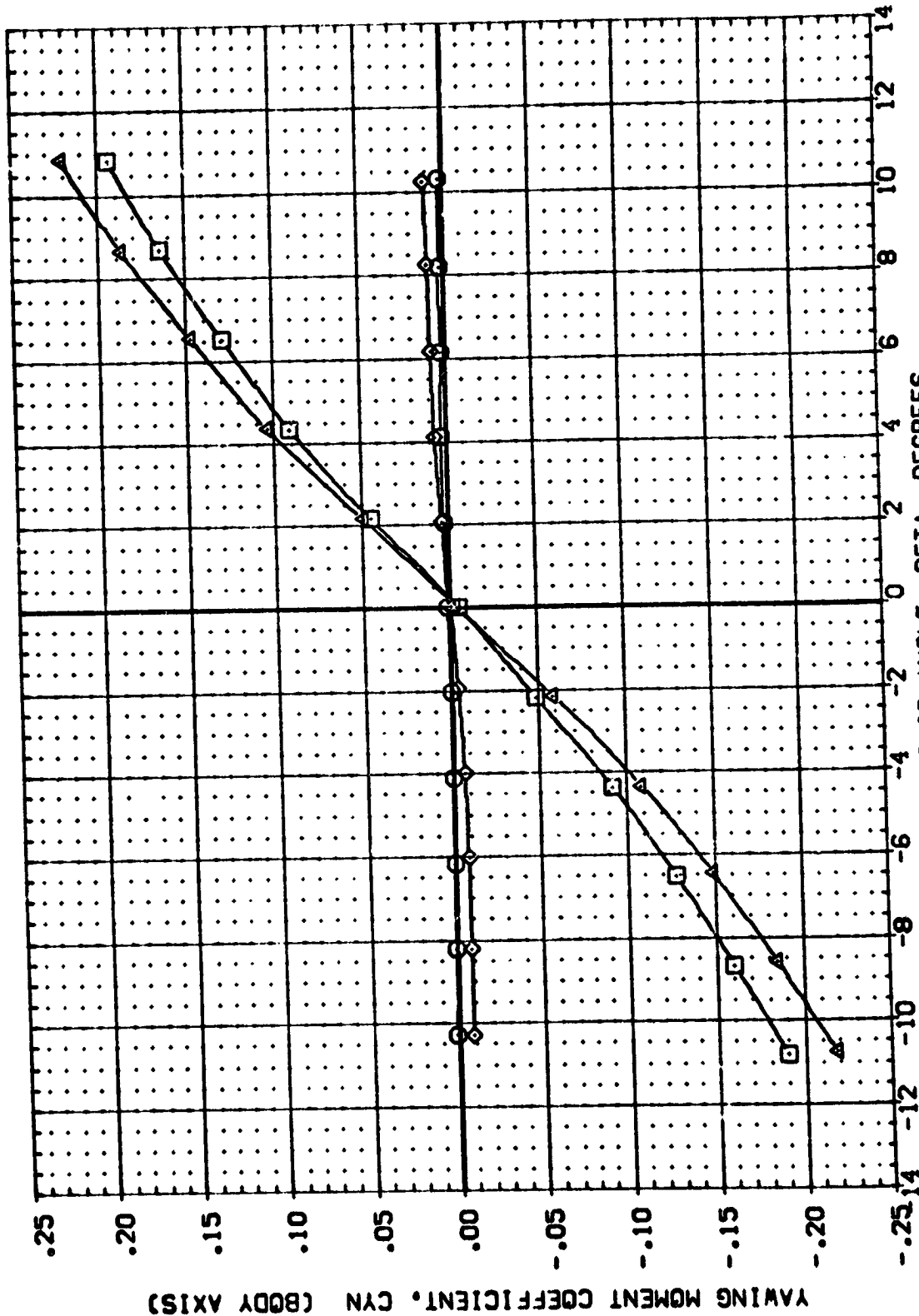
PAGE 30



REFERENCE INFORMATION
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 LREF 1790.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 576.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

ALPHA ROLLER
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DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [B28013] LRC 8 TPT 657 [A4] TIP [0]
 [B28011] LRC 8 TPT 657 [A4] TIP [0]
 [B28015] LRC 8 TPT 657 [A4] TIP [SIP2]
 [B28003] LRC 8 TPT 657 [A4] TIP [SIP20]



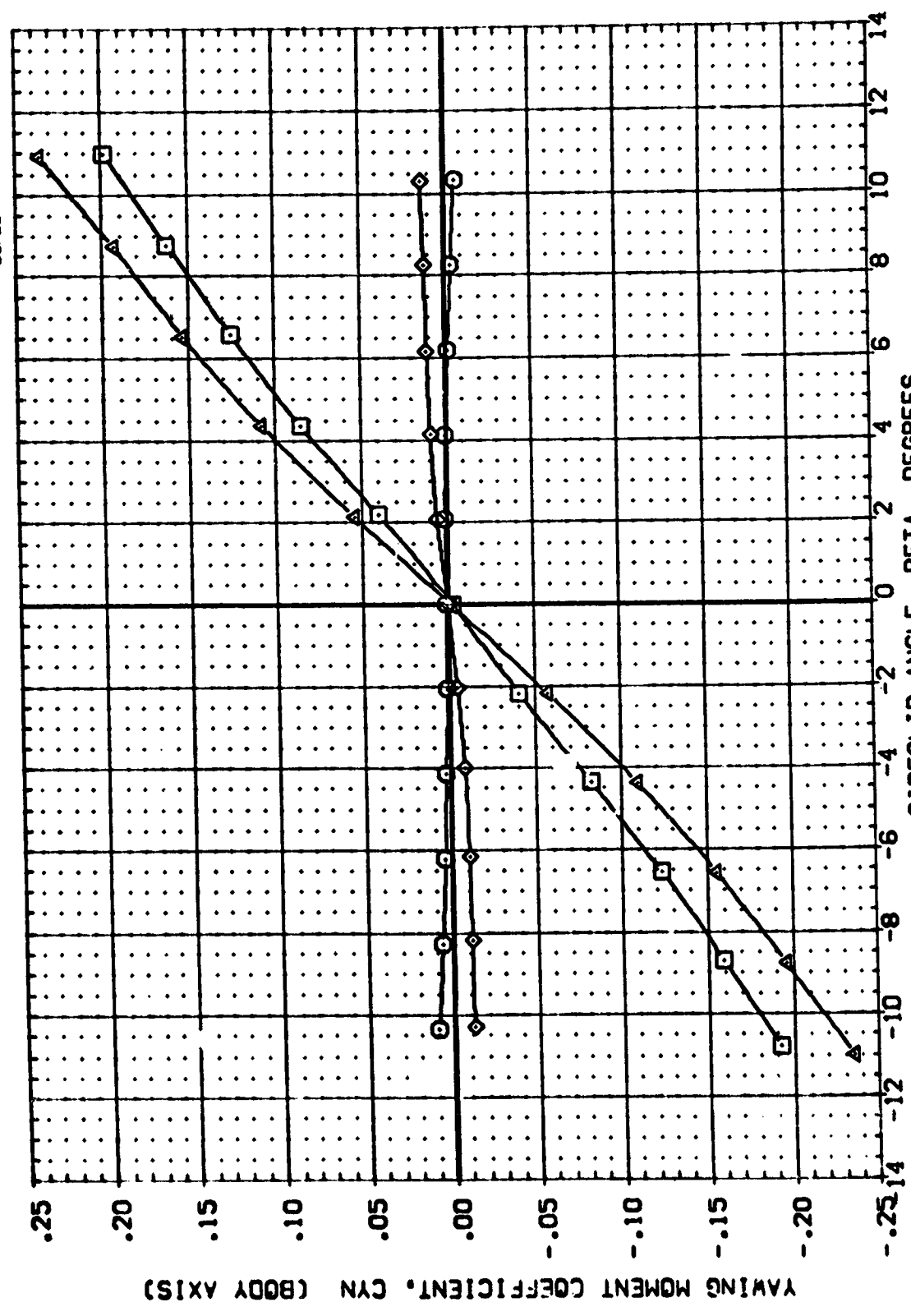
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

(C)MACH = .90

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.0000 INCHES
 BREF 1290.0000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

ALPHA RUDDER
 .000
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 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808013) LRC 8 TPT 657 [A1] T1P1
 (808011) LRC 8 TPT 657 [A1] T1P1B1
 (808015) LRC 8 TPT 657 [A1] T1P1S1P2
 (808003) LRC 8 TPT 657 [A1] T1P1S1P201



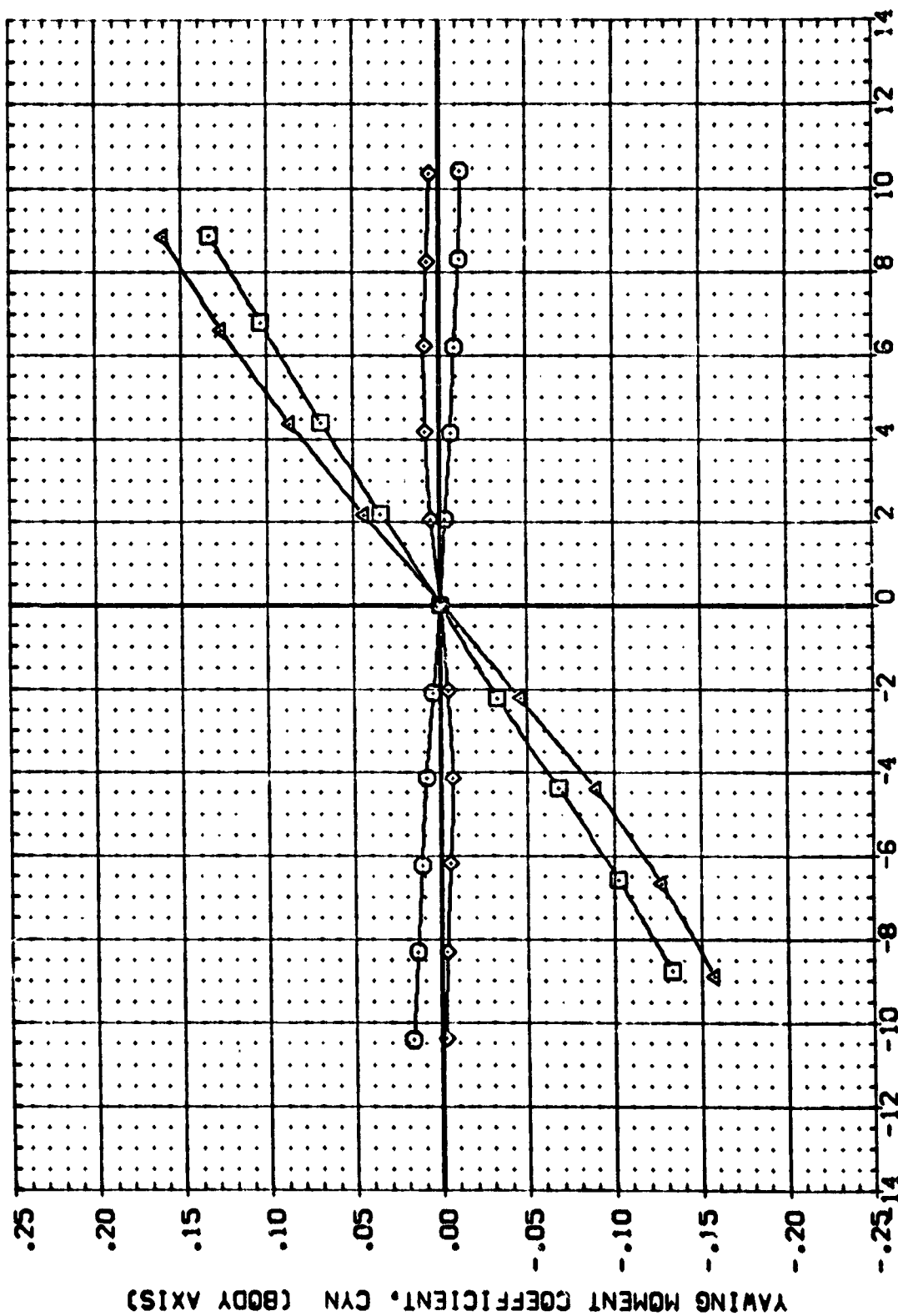
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

(O)MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B08013) LRC 8 TPT 657 [A1] T1P1
 (B08011) LRC 8 TPT 657 [A1] T1P1
 (B08015) LRC 8 TPT 657 [A1] T1P1SIP2
 (B08003) LRC 8 TPT 657 [A1] T1P1SIP201

ALPHA RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 50 FT.
 LREF 1790.3000 INCHES
 BREF 1790.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



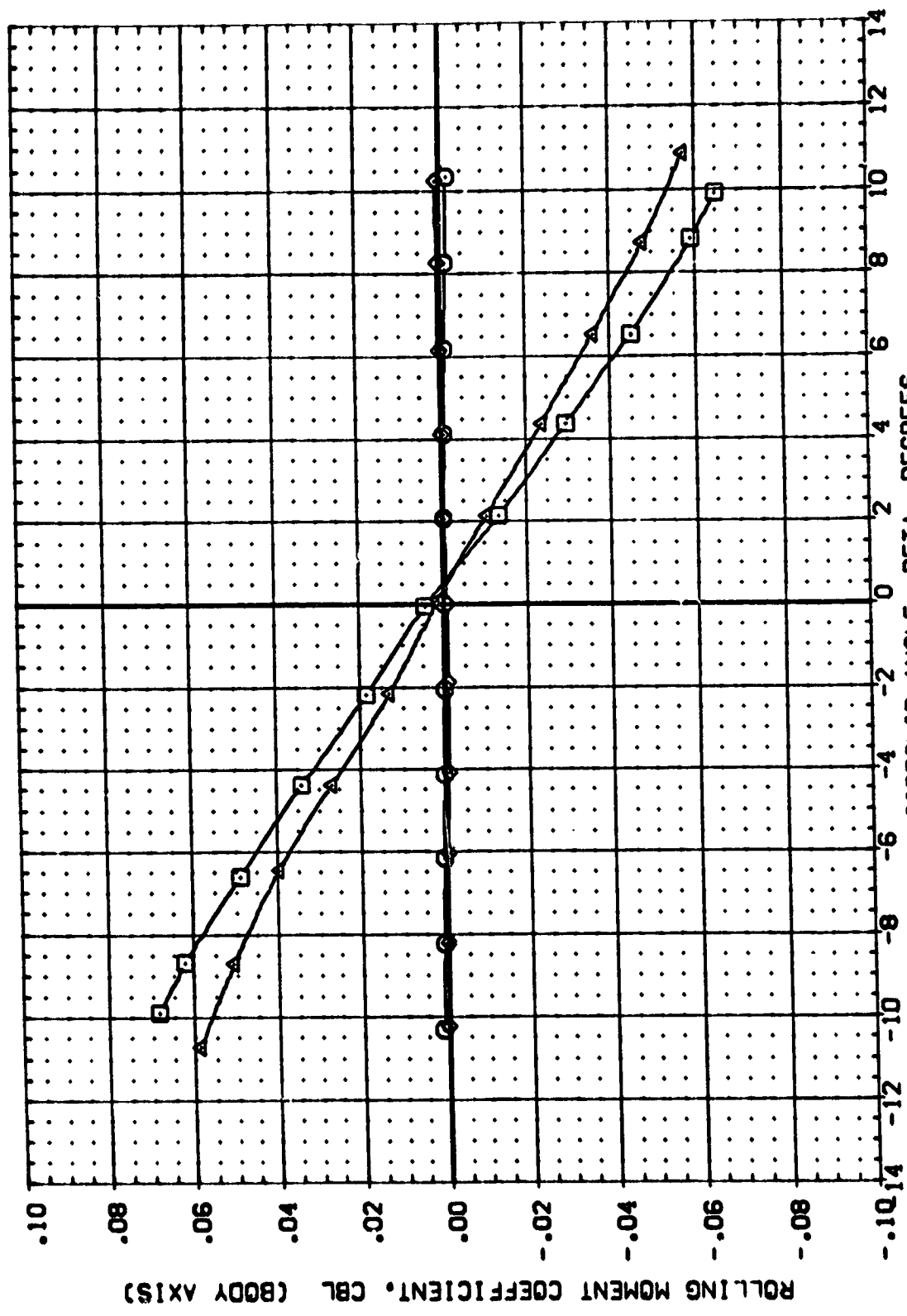
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

(E)MACH = 1.20

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XREF 976.0000 INCHES
 YREF 400.0000 INCHES
 ZREF 400.0000 INCHES
 SCALE .0150 SCALE

ALPHA RUDER
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DATA SET SYMBOL CONFIGURATION DESCRIPTION
 {828013} LRC 8 TPT 657 [A1] T1P1
 {828011} LRC 8 TPT 657 [A1] T1P1
 {828015} LRC 8 TPT 657 [A1] T1P1
 {828003} LRC 8 TPT 657 [A1] T1P1



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)
 SIDESLIP ANGLE, BETA, DEGREES
 CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(808013) LRC 8 TPT 667 [A4] T1P1

(808011) LRC 8 TPT 667 [A4] T1P1P2

(808015) LRC 8 TPT 667 [A4] T1P1P2

(808003) LRC 8 TPT 667 [A4] T1P1P201

ALPHA ROLLER

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REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 1290.3000 INCHES

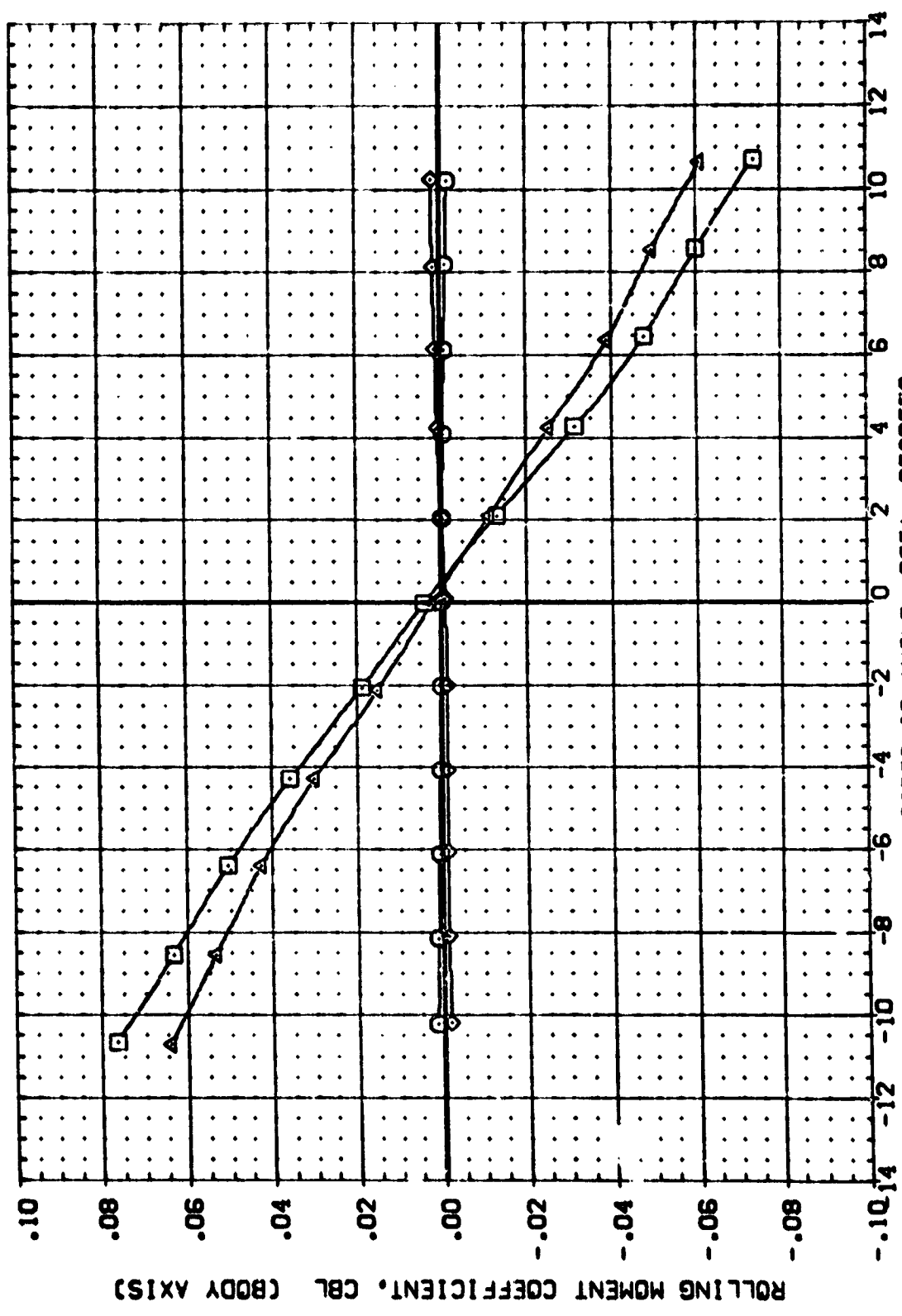
BREF 1290.3000 INCHES

XMRP 976.0000 INCHES

YMRP 400.0000 INCHES

ZMRP 400.0000 INCHES

SCALE .0150 SCALE



SIDESLIP ANGLE, BETA, DEGREES

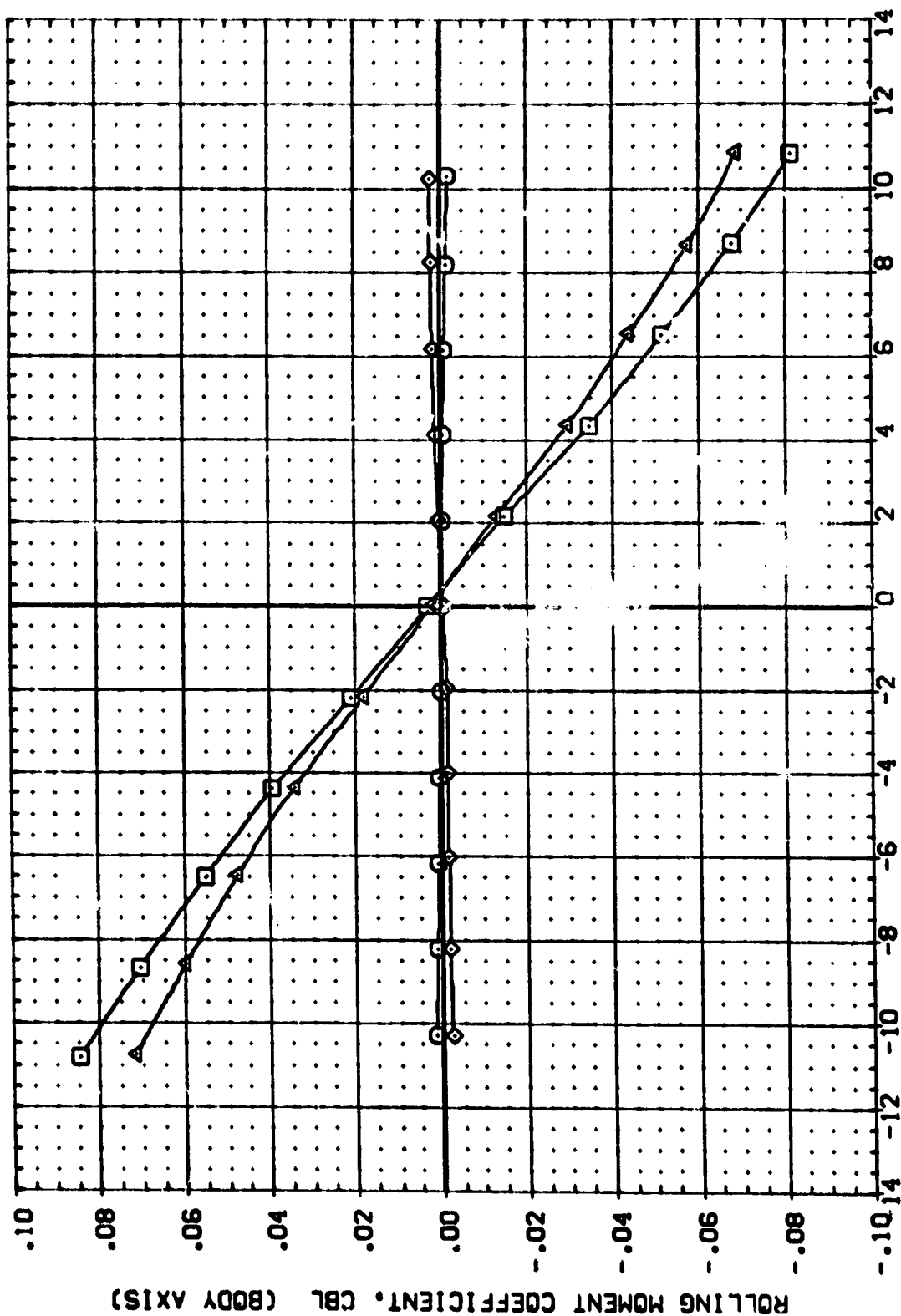
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

(B)MACH = .80

DATA SET SYMB. CONFIGURATION DESCRIPTION
 [828013] LRC 8 TPT 657 [A4] TIP1
 [828011] LRC 8 TPT 657 [A4] TIP101
 [828015] LRC 8 TPT 657 [A4] TIP1SIP2
 [828003] LRC 8 TPT 657 [A4] TIP1SIP201

ALPHA RUDDER
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REFERENCE INFORMATION
 SREF 2630.0000 SO.FT.
 LREF 1250.3000 IN-ES
 BREF 1250.3000 IN-ES
 XPRP 976.0000 IN-ES
 YPRP 400.0000 IN-ES
 ZPRP 400.0000 IN-ES
 SCALE .0150



SIDESLIP ANGLE, BETA, DEGREES
 CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

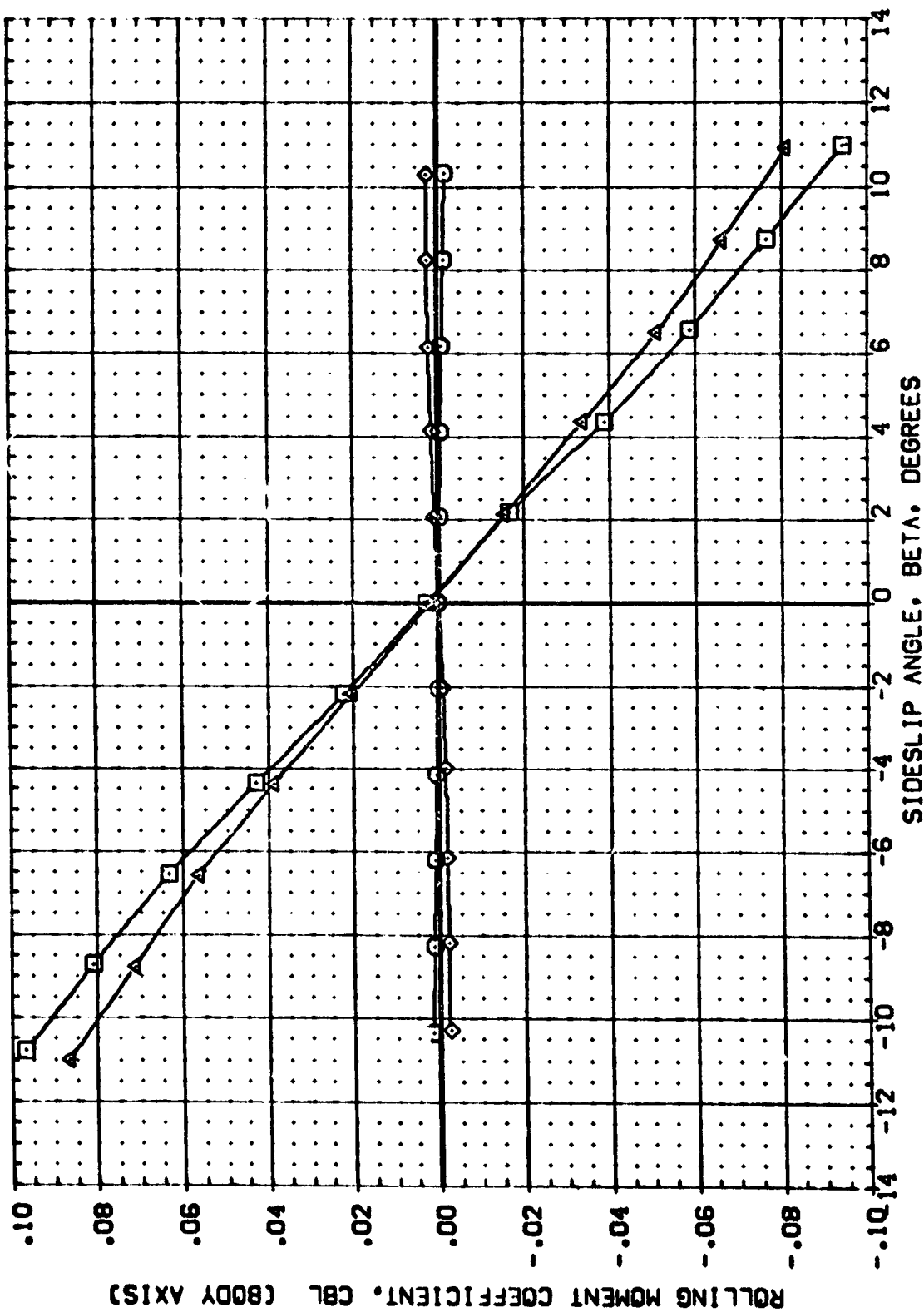
(C)MACH = .90



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [808013] LRC 8 TPT 667 [A4] T1P1
 [808011] LRC 8 TPT 667 [A4] T1P101
 [808015] LRC 8 TPT 667 [A4] T1P1S1P2
 [808003] LRC 8 TPT 667 [A4] T1P1S1P201

ALPHA RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 50. FT.
 LREF 1290.0000 IN-ES
 EXREF 1290.0000 IN-ES
 YMRP 976.0000 IN-ES
 YMRP 400.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 SCALE



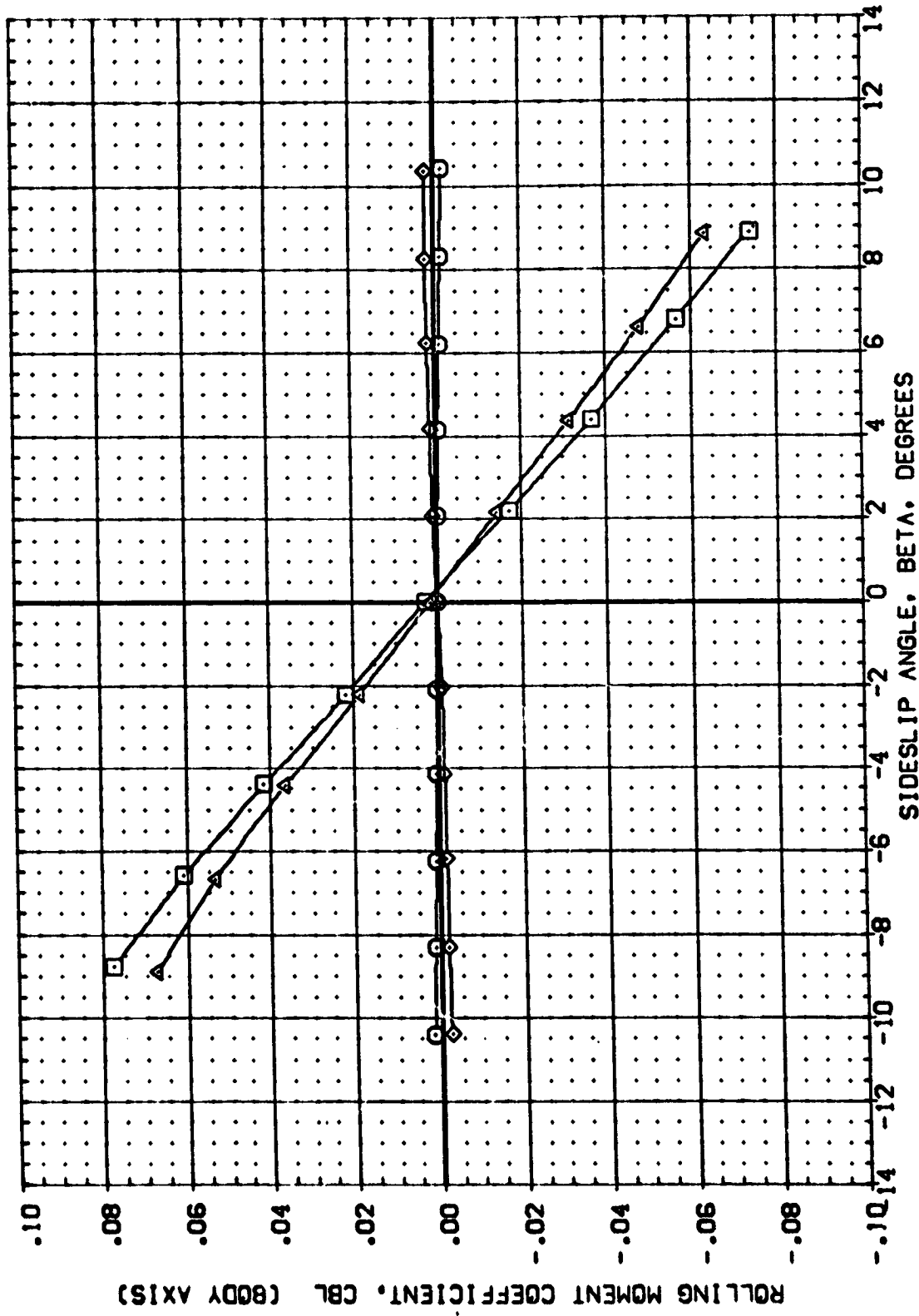
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

(D)MACH = .98

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1290.3000 IN-ES
 BREF 1290.3000 IN-ES
 YPRP 576.0000 IN-ES
 ZPRP 400.0000 IN-ES
 SCALE .0150 SCALE

ALPHA RUDDER
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DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B08013) LRC 8 TPT 657 [A4] TIP1
 (B08011) LRC 8 TPT 657 [A4] TIP101
 (B08015) LRC 8 TPT 657 [A4] TIP1SIP2
 (B08003) LRC 8 TPT 657 [A4] TIP1SIP201



CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

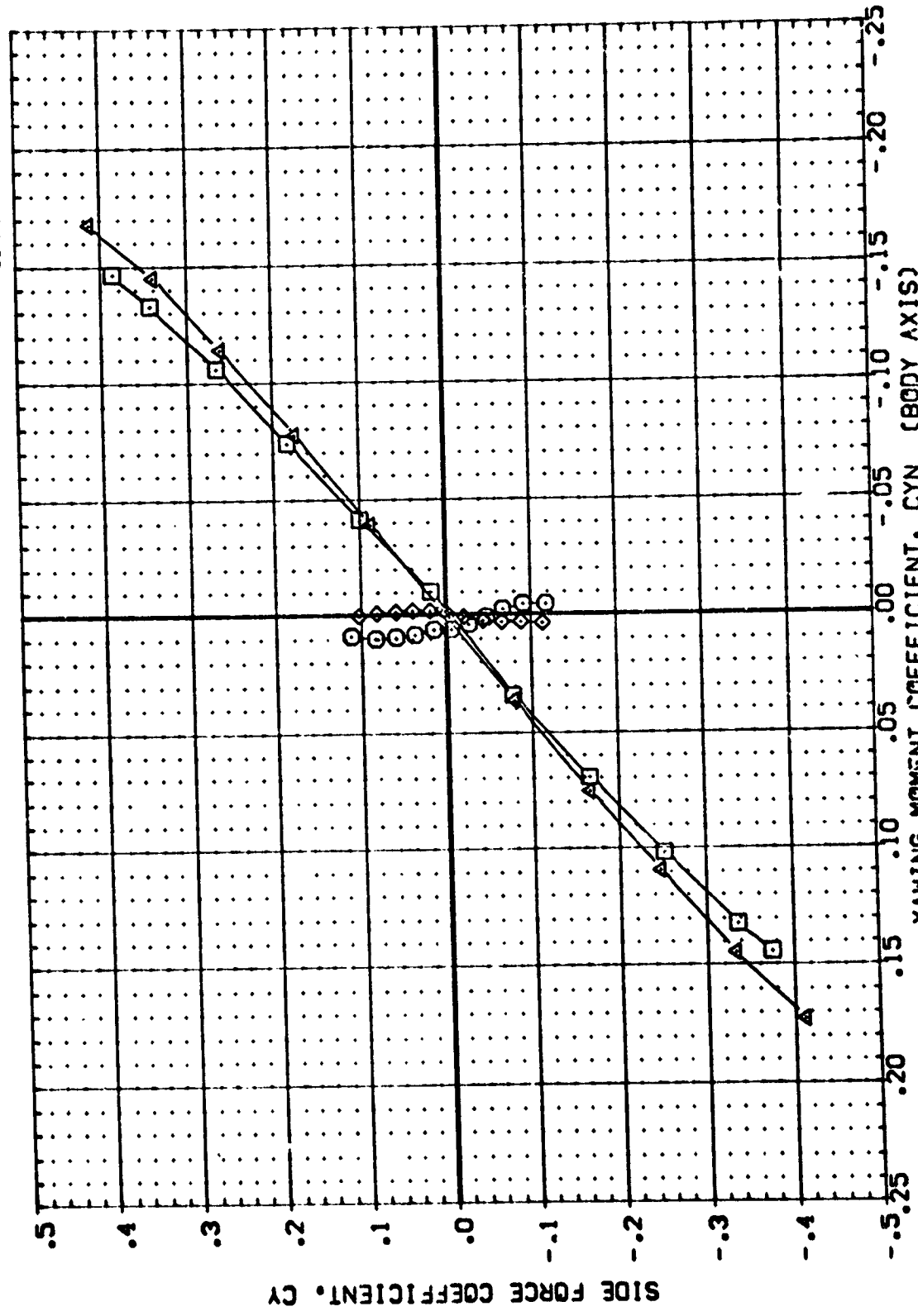
[E]MACH = 1.20



DATA SET 5 30L CONFIGURATION DESCRIPTION
 (808013) LRC 8 IPT 657 1A41 T1P1
 (808011) LRC 8 IPT 657 1A41 T1P101
 (808015) LRC 8 IPT 657 1A41 T1P1SIP2
 (808003) LRC 8 IPT 657 1A41 T1P1SIP201

ALPHA RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 50 FT
 LREF 1290.0000 INCHES
 BREF 1290.0000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



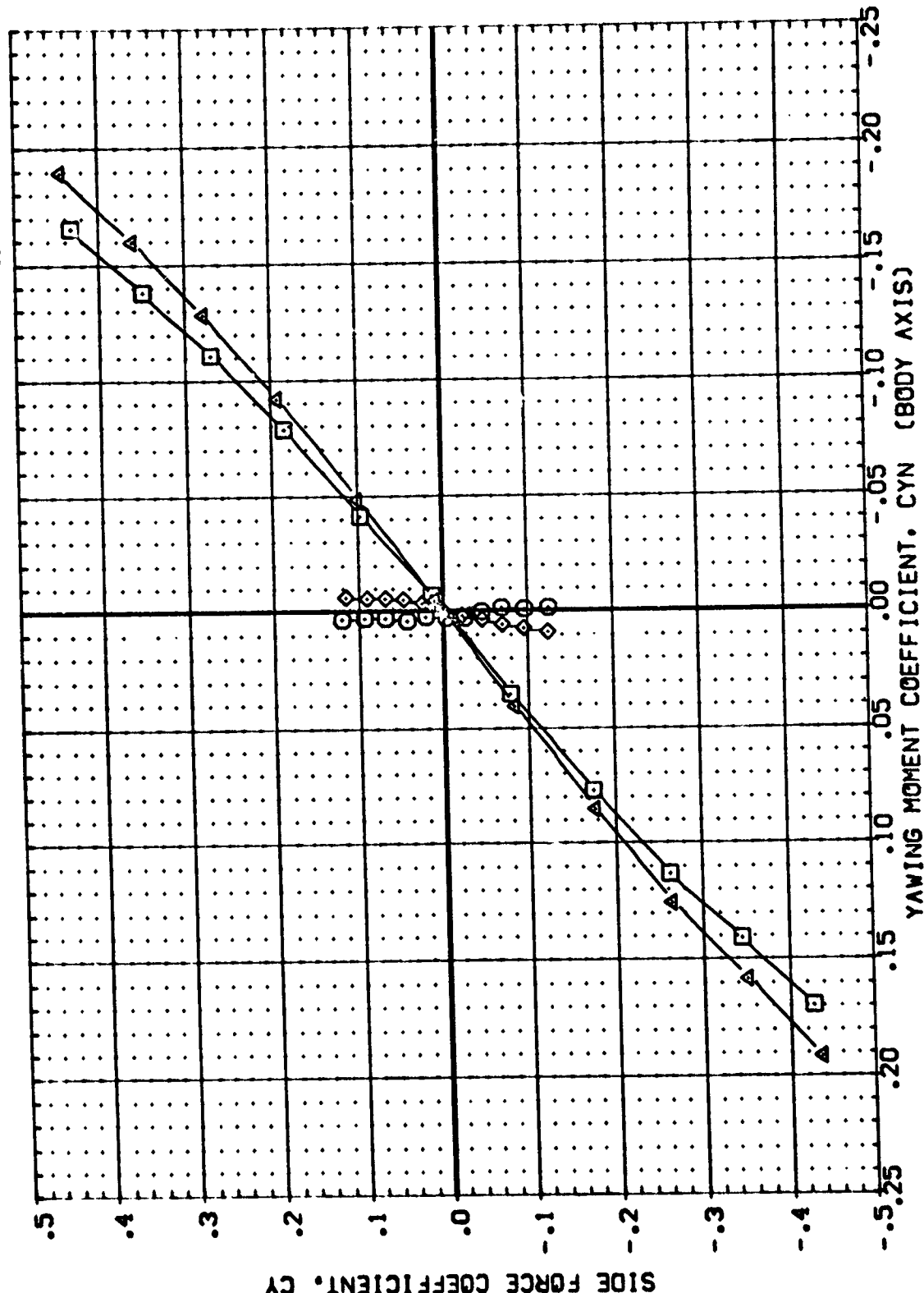
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS
 (A)MACH = .60



REFERENCE INFORMATION
SREF 2690.0007 SQ.FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
YPRP 976.0000 INCHES
ZPRP 400.0000 INCHES
SCALE .0150

ALPHA RUDDER
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DATA SET SYMBO. CONFIGURATION DESCRIPTION
[B08013] LRC 8 TPT 657 [A4] TIP1
[B08011] LRC 8 TPT 657 [A4] TIP101
[B08015] LRC 8 TPT 657 [A4] TIP1SIP2
[B08003] LRC 8 TPT 657 [A4] TIP1SIP201

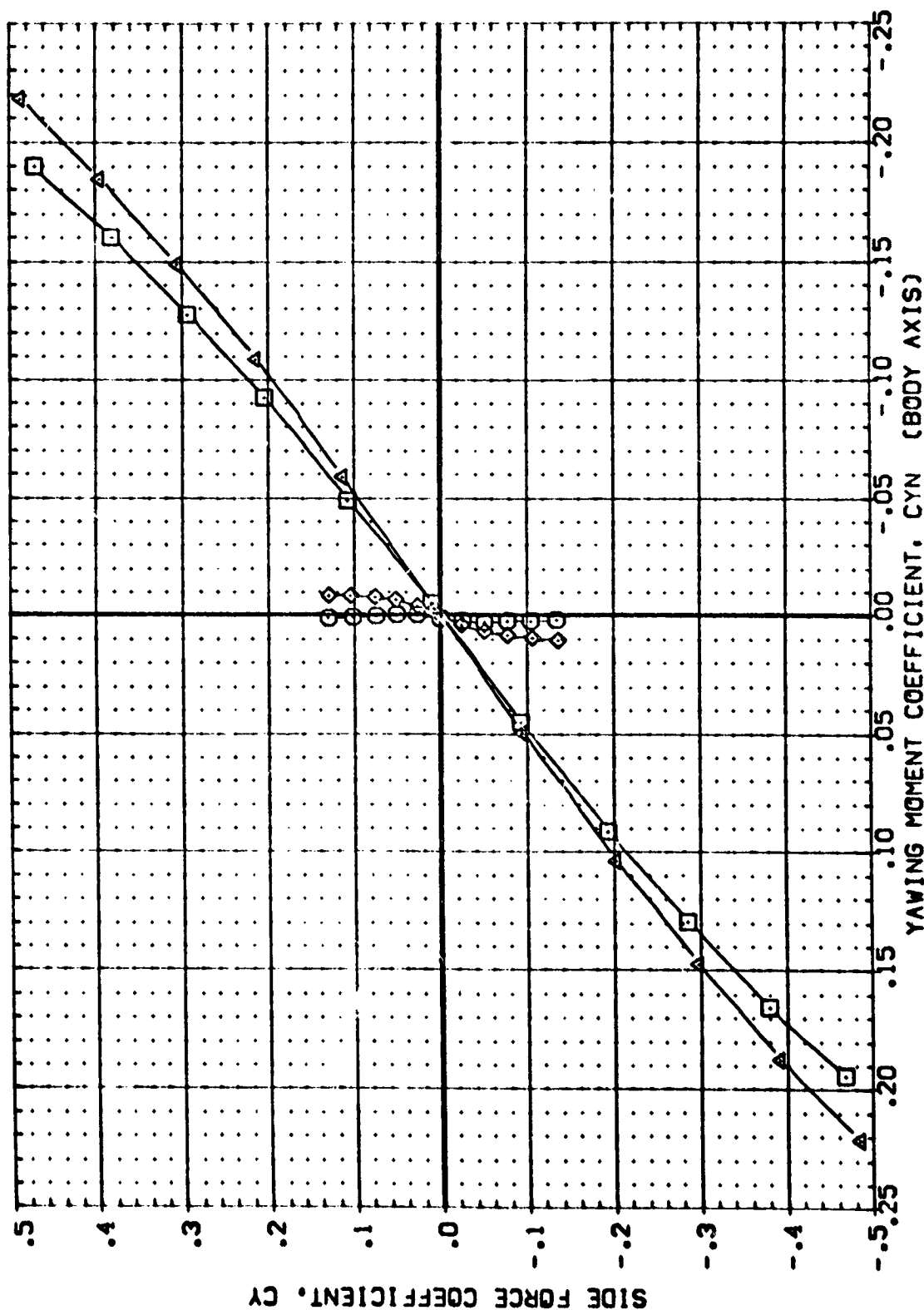


CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

(B)MACH = .80

PJDER

REFERENCE INFORMATION	
SREF	2690.0000 SQ.FT.
LREF	1290.3000 INCHES
BREF	1290.3000 INCHES
XMRP	976.0000 INCHES
YMRP	0.0000 INCHES
ZMRP	400.0000 INCHES
SCALE	.0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

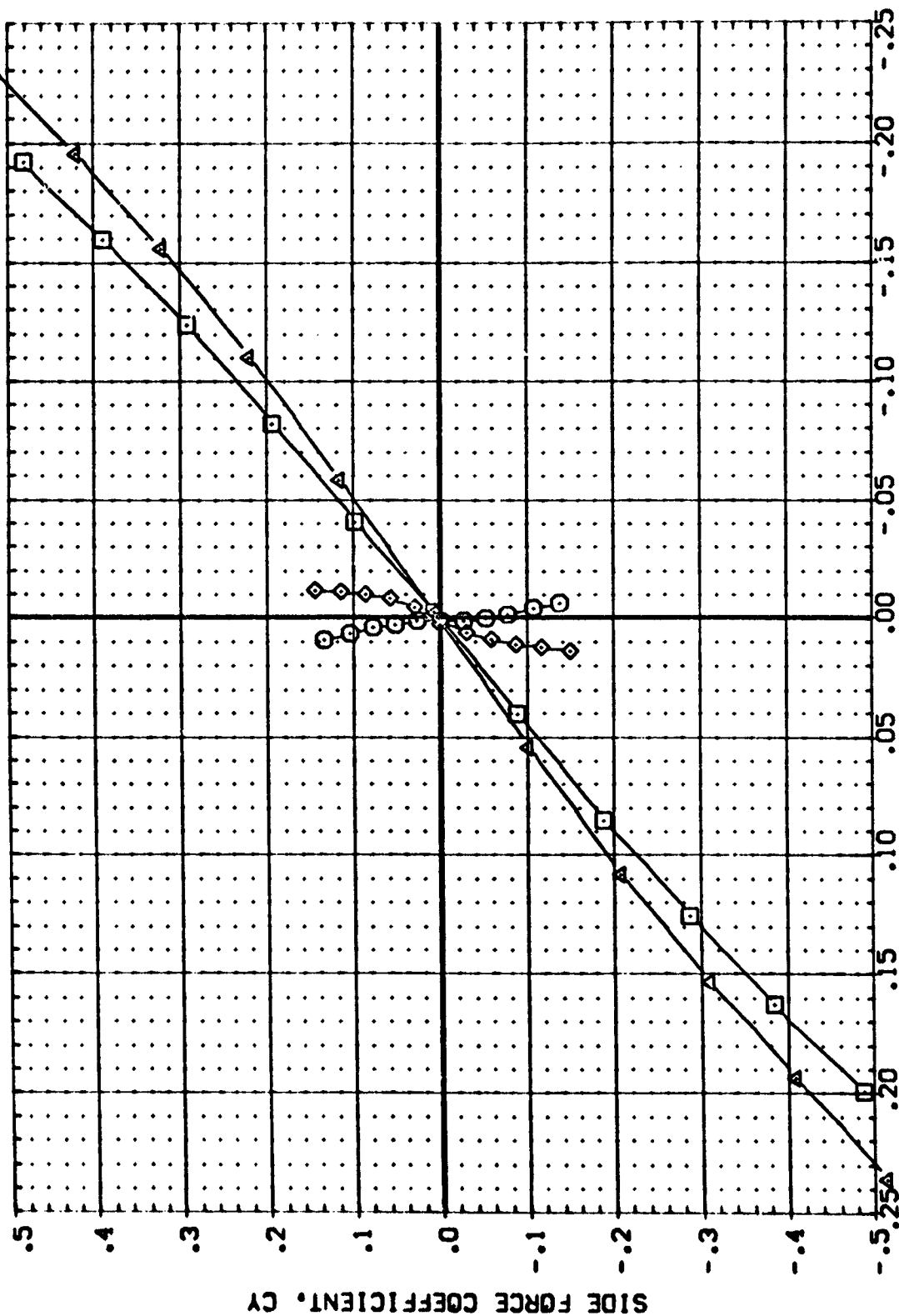
$$C_2MACH = .90$$

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DATA SET SYMBOL. CONFIGURATION DESCRIPTION
 (B08013) LRC 8 TPT 667 [A4] TIP1
 (B08011) LRC 8 TPT 667 [A4] TIP1
 (B08015) LRC 8 TPT 667 [A4] TIP1
 (B08013) LRC 8 TPT 667 [A4] TIP1

ALPHA RODDER
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REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 IN-ES
 BREF 1290.3000 IN-ES
 XMRP 976.0000 IN-ES
 YMRP 400.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 SCALE



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)
 CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

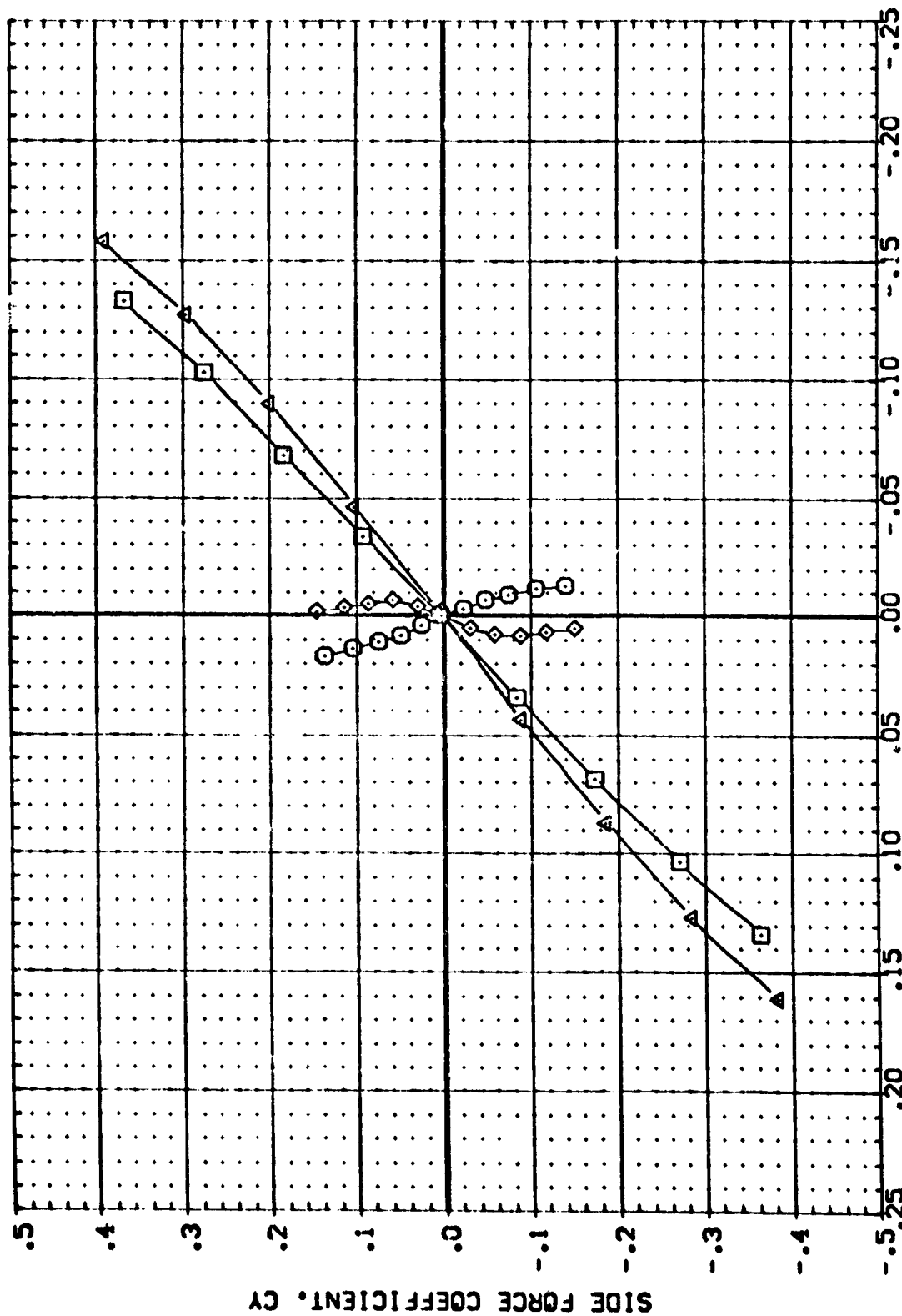
(D)MACH = .98



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [808013] LRC 8 TPT 667 [A4] T1P1
 [808011] LRC 8 TPT 667 [A4] T1P101
 [808015] LRC 8 TPT 667 [A4] T1P15P2
 [808003] LRC 8 TPT 667 [A4] T1P15P201

ALPHA RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.0000 INCHES
 BREF 1290.0000 INCHES
 XMRP 975.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)
 CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

(E)MACH = 1.20

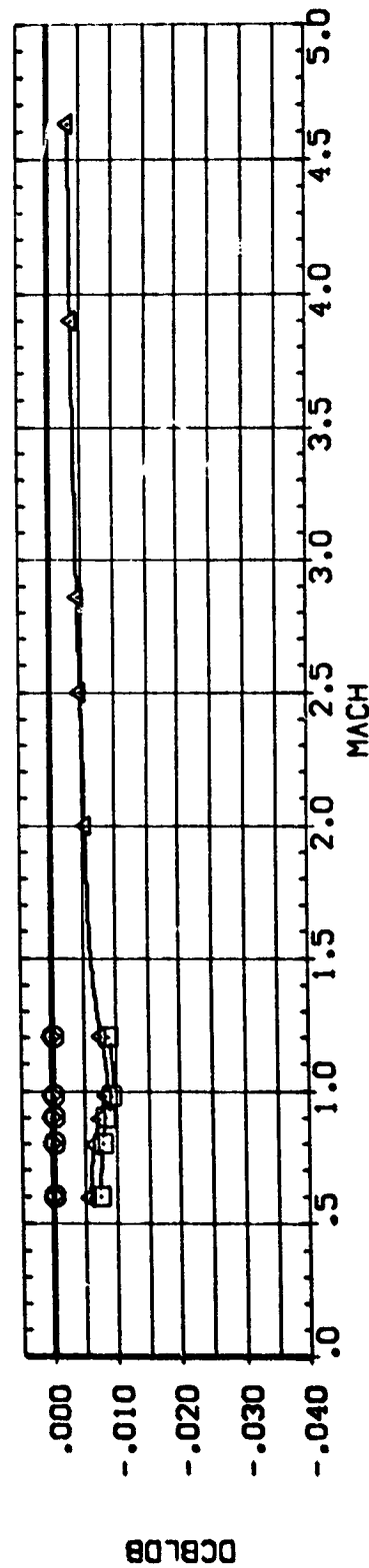
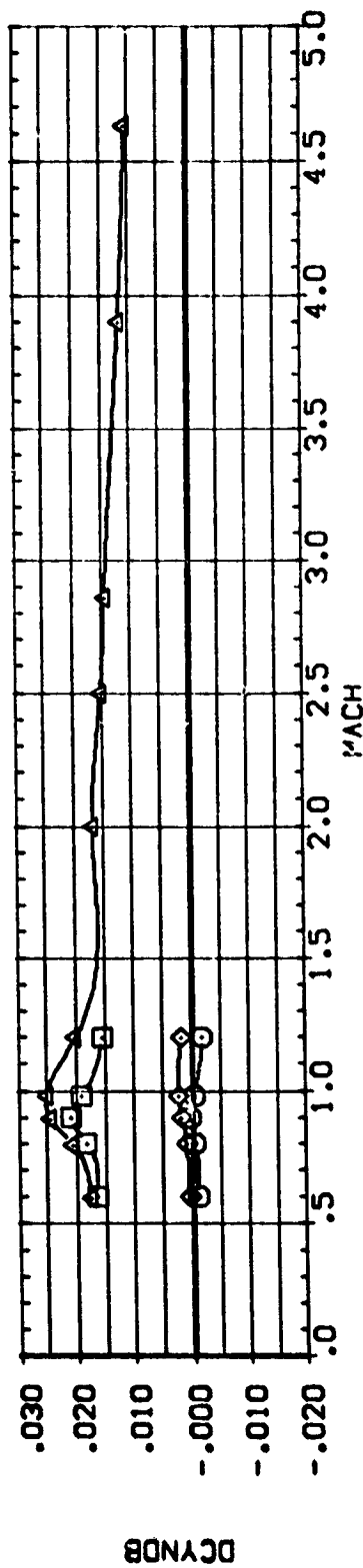
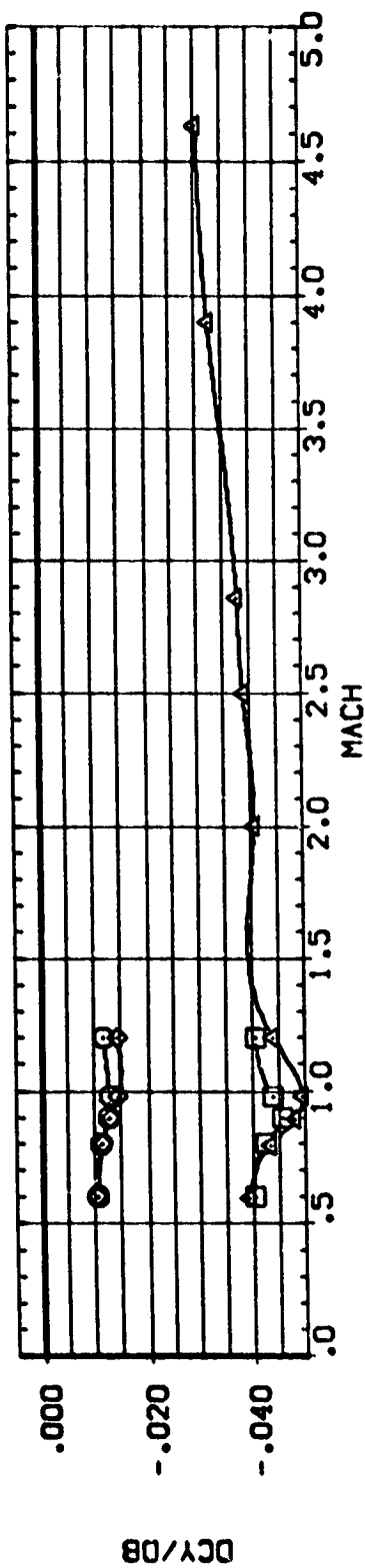


CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

REFERENCE INFORMATION
SREF 2690.0000 50.FT.
LREF 1290.3000 INO-ES
BREF 1290.3000 INO-ES
XMRP 976.0000 INO-ES
YMRP 400.0000 INO-ES
SCALE .0150 SCALE

ALPHA RUDDER
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DATA SET SYMBOL CONFIGURATION DESCRIPTION
(B08013) LRC 8 TPT 657 [A1] TIP1
(B08011) LRC 8 TPT 657 [A1] TIP101
(B08015) LRC 8 TPT 657 [A1] TIP1SIP2
(G08003) LRC TESTS [A1] ANO 1A42A/B TIP1SIP201



DATA SET SYMB. CONFIGURATION DESCRIPTION

[808013] LRC 0 TPT 667 [A4] TIP1

[808011] LRC 0 TPT 667 [A4] TIP101

[808015] LRC 0 TPT 667 [A4] TIP1SIP2

[808003] LARC TESTS [A4] AND [A42A/B] TIP1SIP201

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 1290.3000 IN.-ES

BREF 1290.3000 IN.-ES

XMRP 976.0000 IN.-ES

ZMRP 400.0000 IN.-ES

SCALE 100.0000 IN.-ES

ALPHA R.ODER

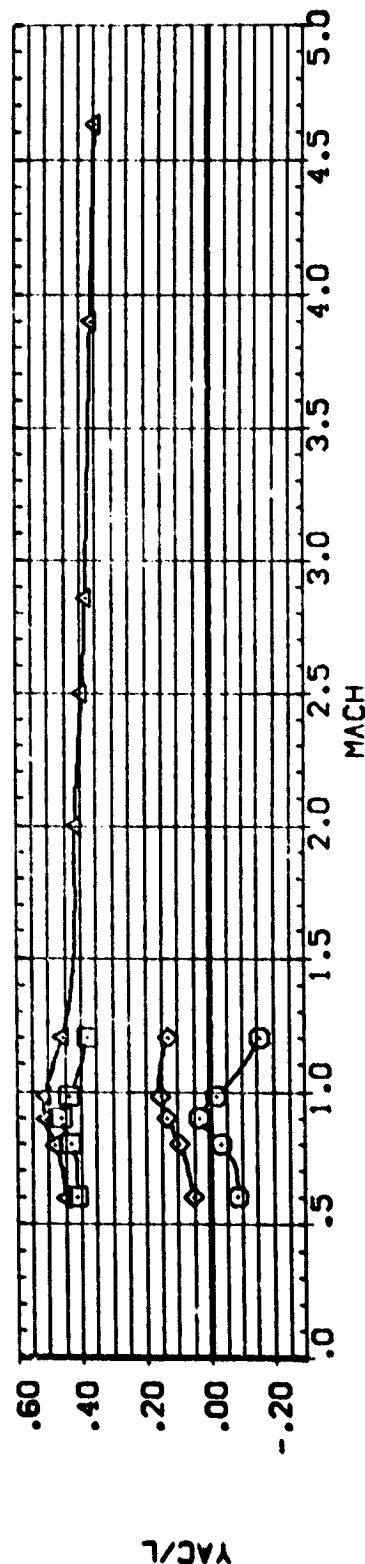
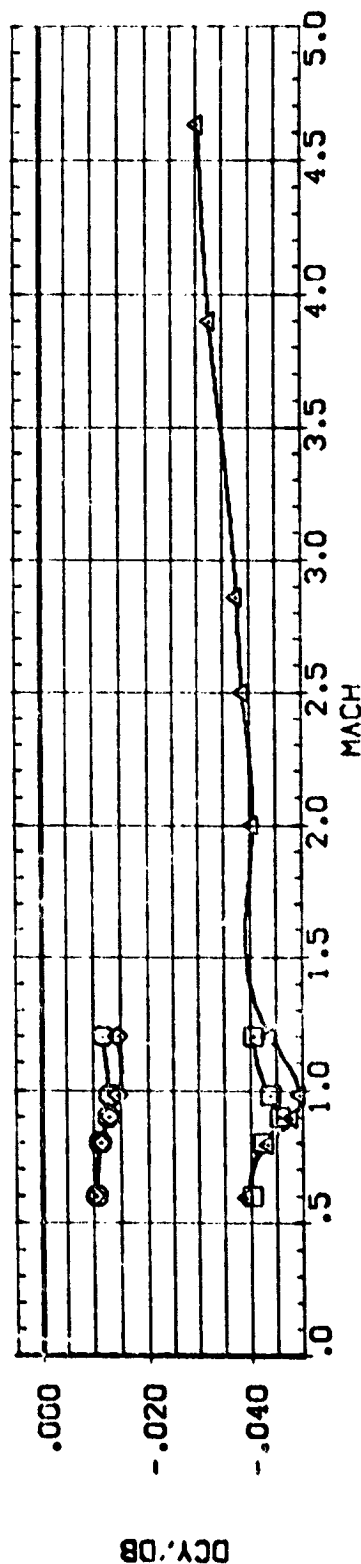
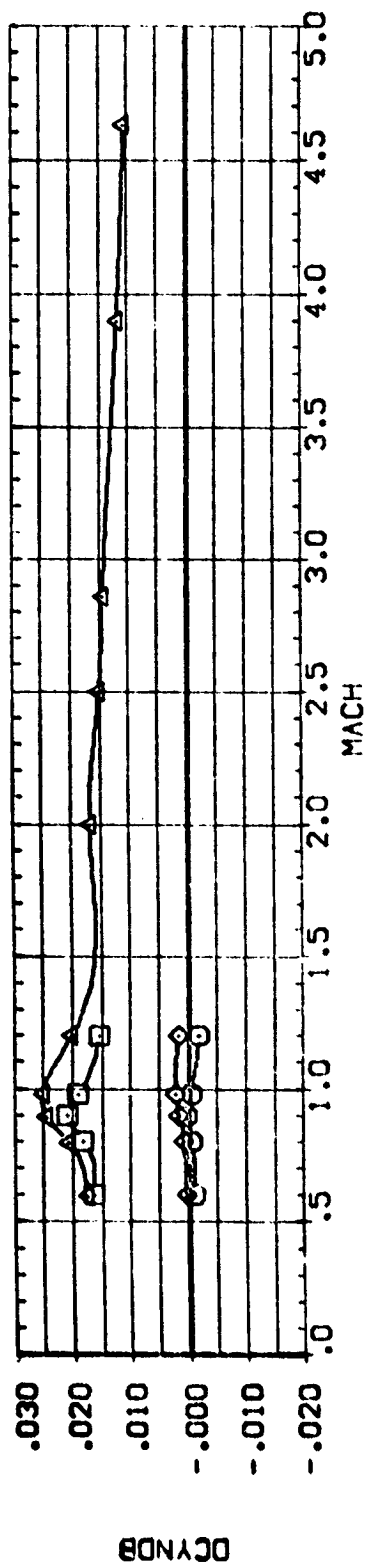
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SCALE .0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECTIONAL CHARACTERISTICS

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

BETA R.000R

REFERENCE INFORMATION

SREF 2690.0000 50.FT.

LREF 1290.3000 INCHES

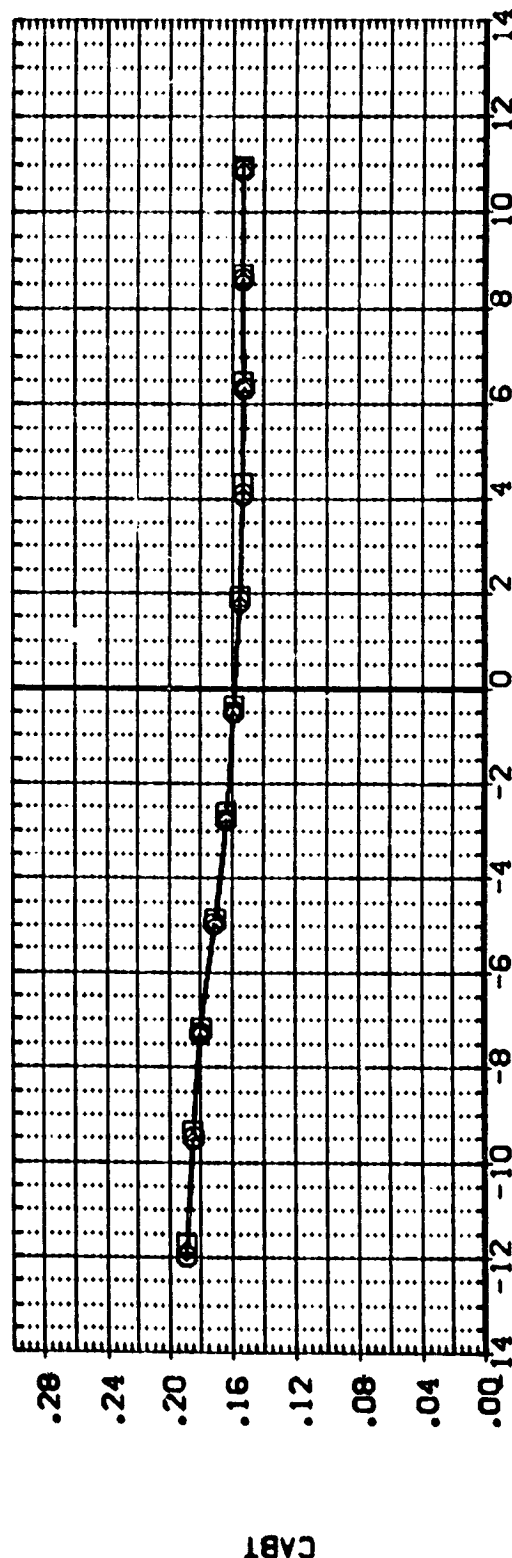
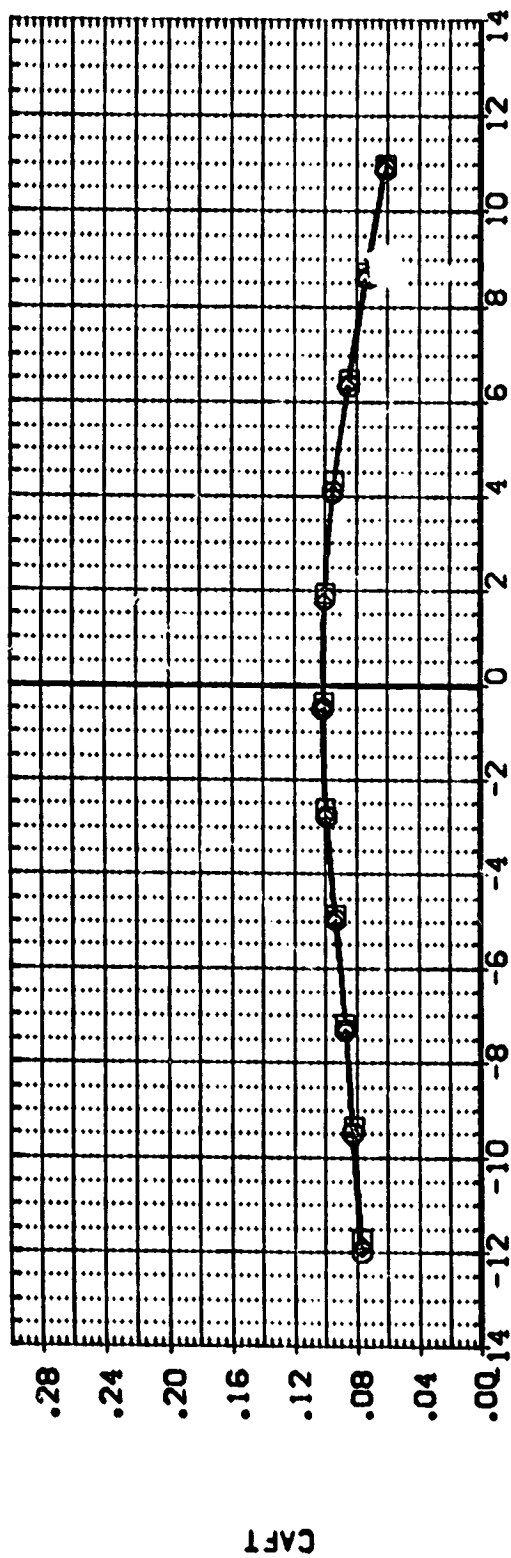
BREF 1290.3000 INCHES

XMRP 976.0000 INCHES

YMRP 400.0000 INCHES

ZMRP 400.0000 INCHES

SCALE .0150



EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

CA/MACH = .60

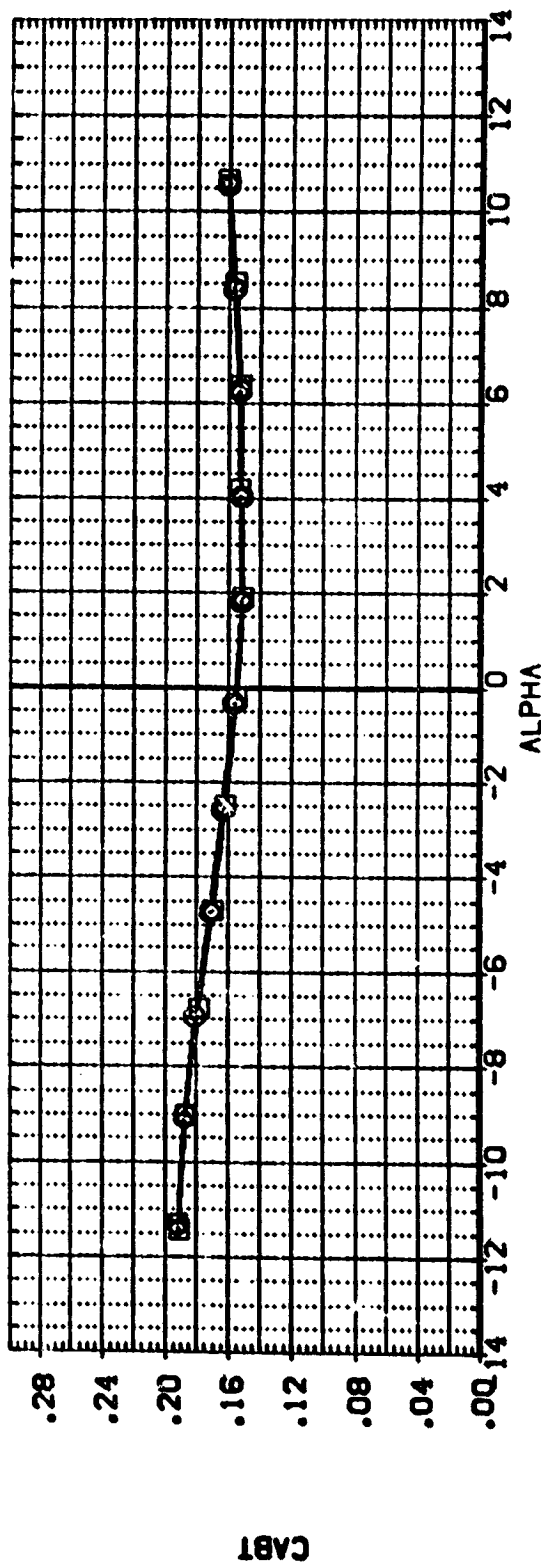
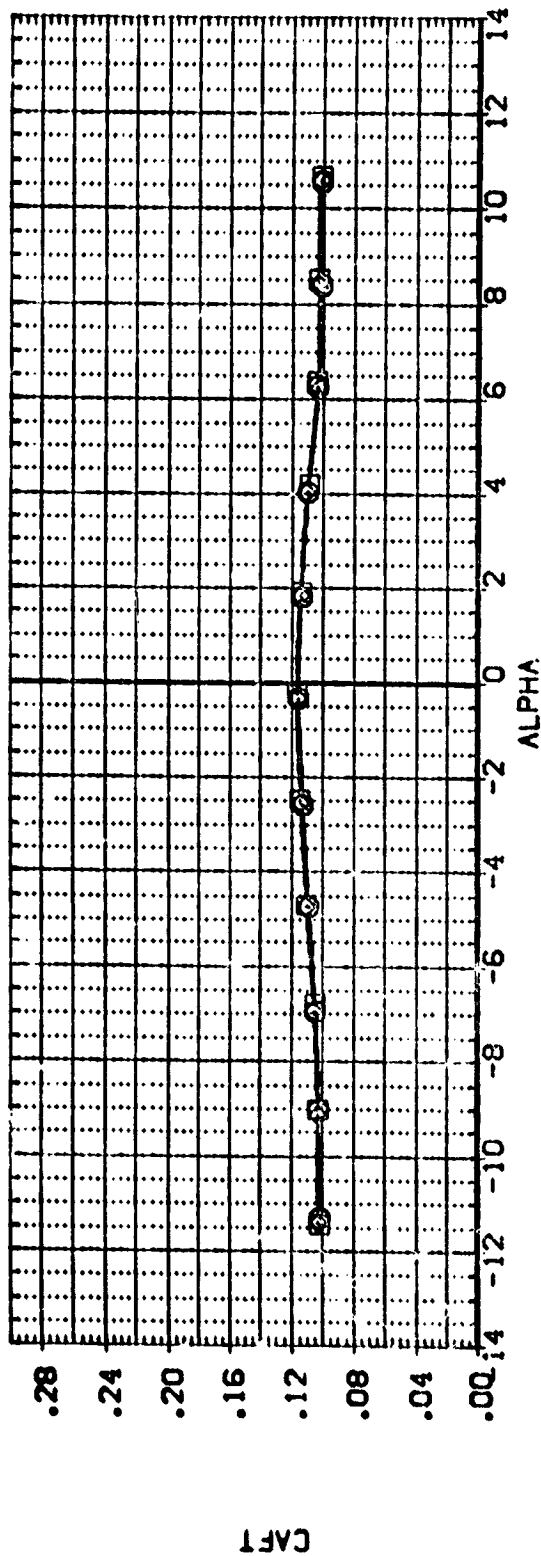
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DATA SET SYMBOLS: CONFIGURATION DESCRIPTION
 [808004] [C] LRC 8 TPT 657 [A1] T1P1S1P201
 [808005] [C] LRC 8 TPT 657 [A1] T4P6S1P201
 [808009] [C] LRC 8 TPT 657 [A1] T2P4S1P201

BETA R.O.D.E.R
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REFERENCE INFORMATION
 SREF 2690.0000 50.00
 LREF 1290.3000 100.00
 BREF 1290.3000 100.00
 XTRP 576.0000 100.00
 YTRP 400.0000 100.00
 ZTRP 400.0000 100.00
 SCALE .0150



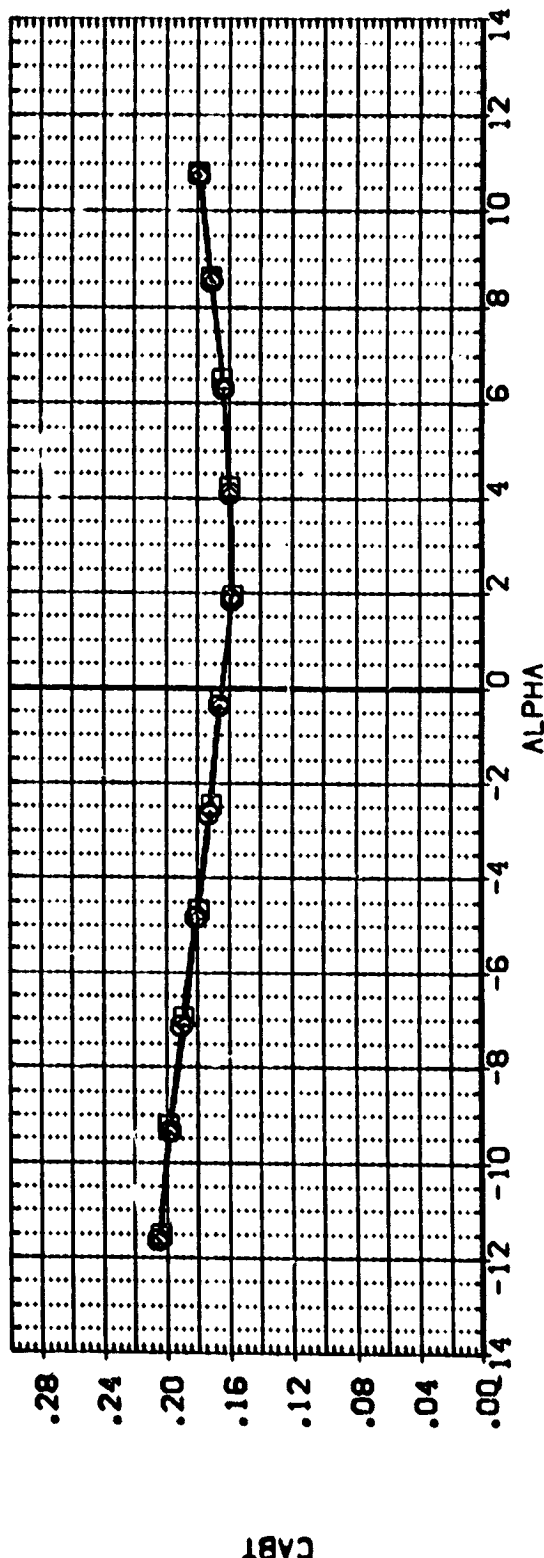
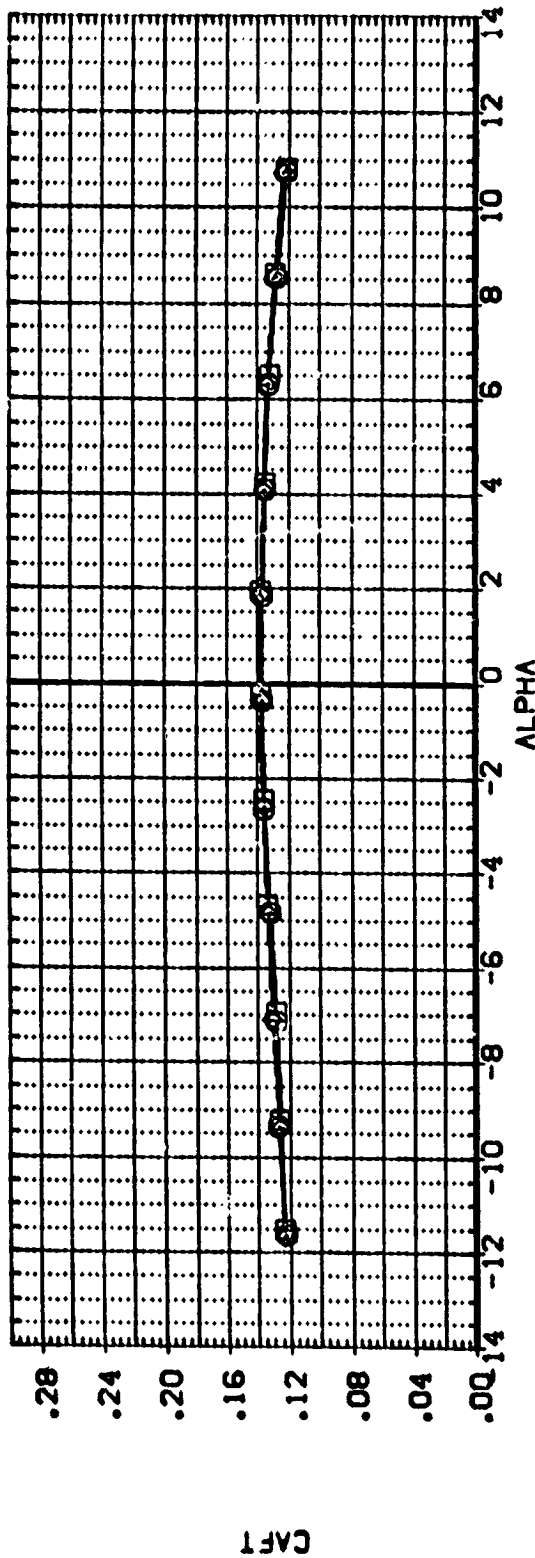
EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808004) LRC 8 TPT 657 [A4] T1P1S[P20]
 (808005) LRC 8 TPT 657 [A4] T4P6S[P20]
 (808009) LRC 8 TPT 657 [A4] T2P4S[P20]

BETA RUDDER
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REFERENCE INFORMATION
 SREF 7690.0000 50 FT
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 INCHES



EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

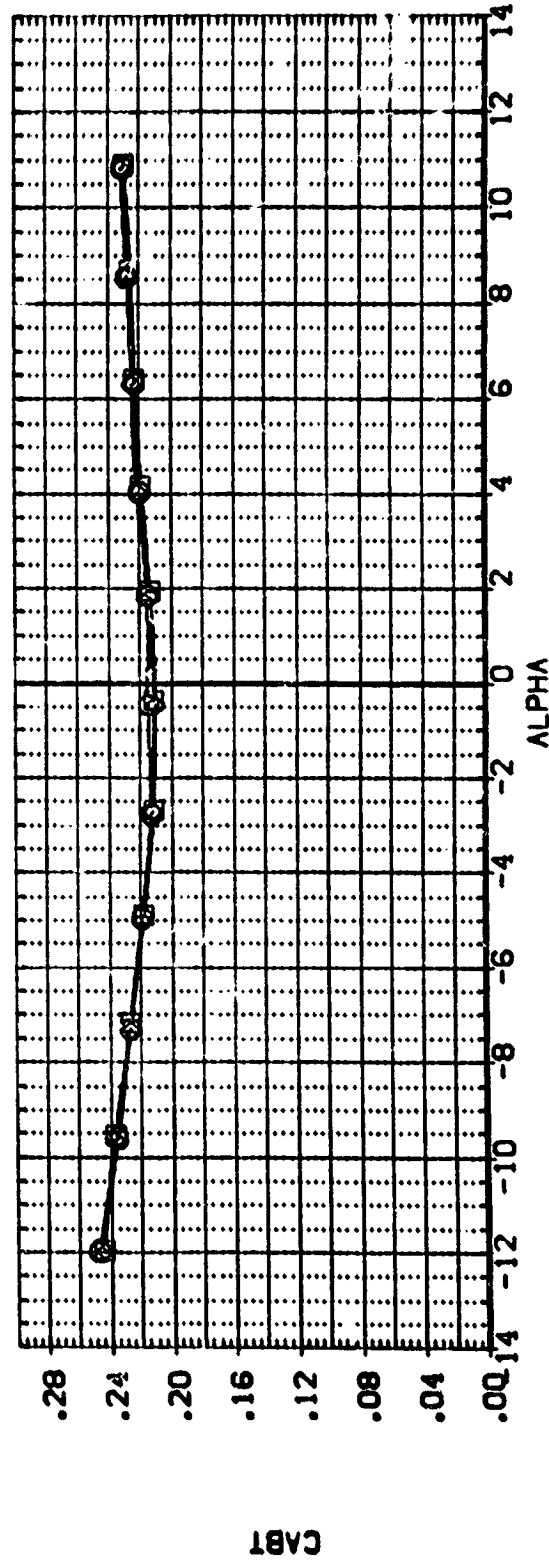
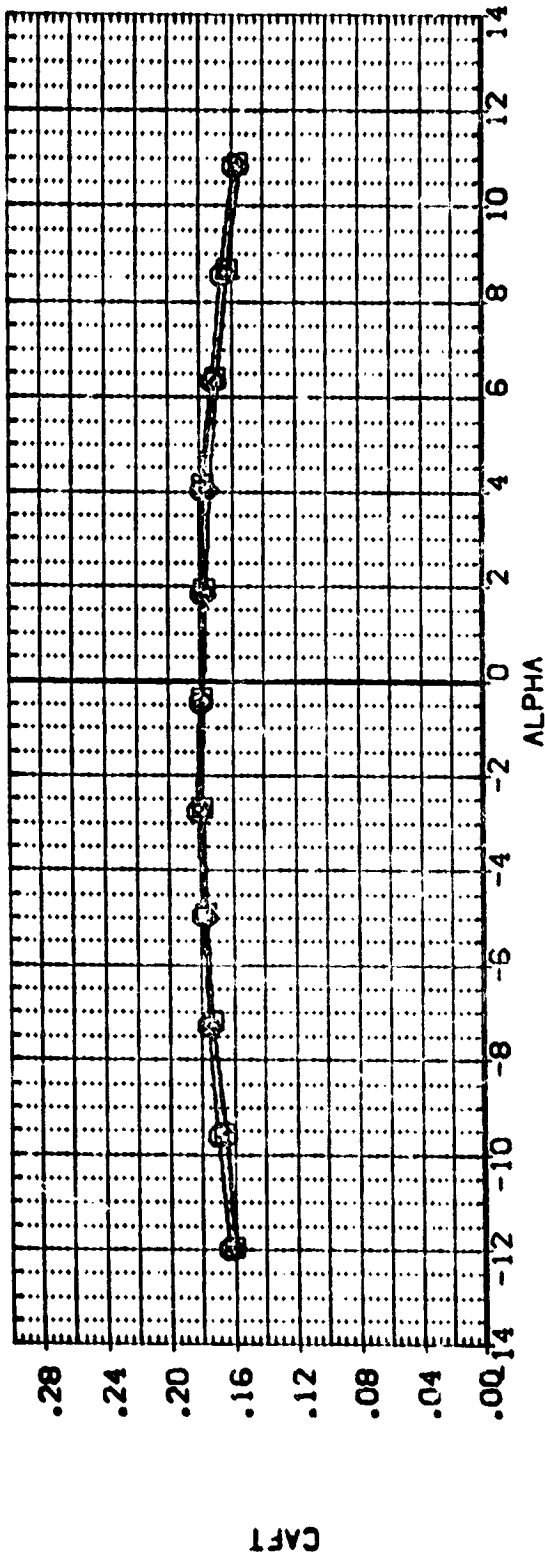
(C)MACH = .90



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [808004] LRC 8 TPT 667 [A4] T1P1S1P201
 [808005] LRC 8 TPT 667 [A4] T4P6S1P201
 [808006] LRC 8 TPT 667 [A4] T2P4S1P201

BE °A RU DER
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REFERENCE INFORMATION
 SREF 2650.0000 SQ.FT.
 LREF 1250.3000 INO-ES
 BREF 1250.3000 INO-ES
 YMRP 976.0000 INO-ES
 YMRP 400.0000 INO-ES
 ZMRP 400.0000 INO-ES
 SCALE .0150



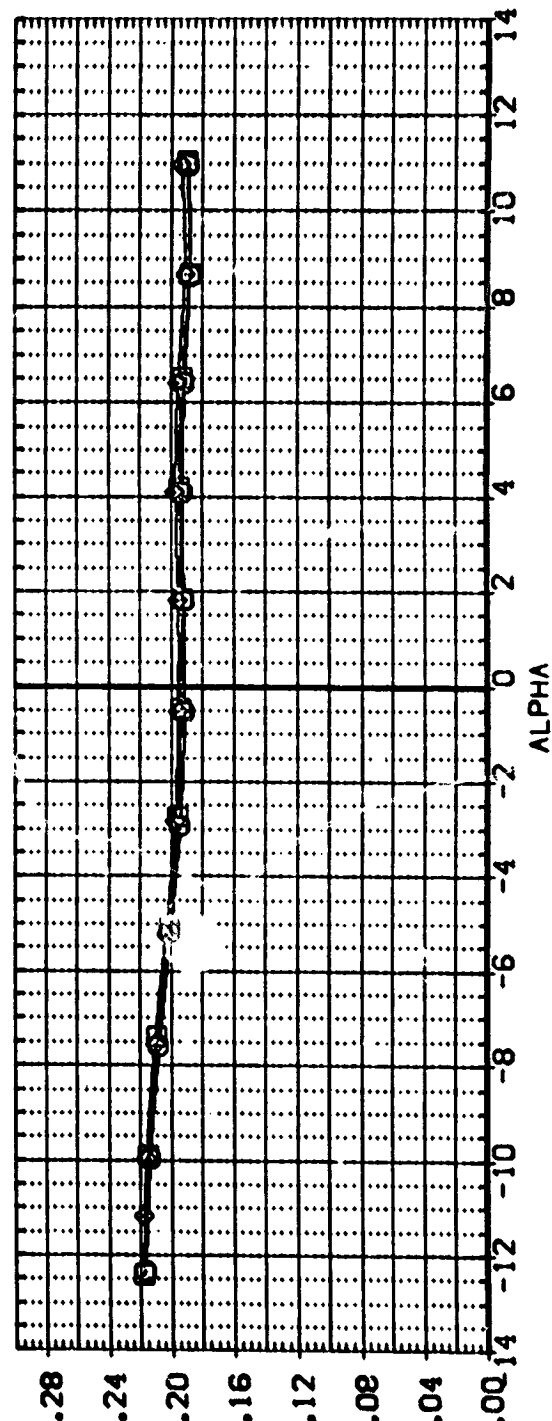
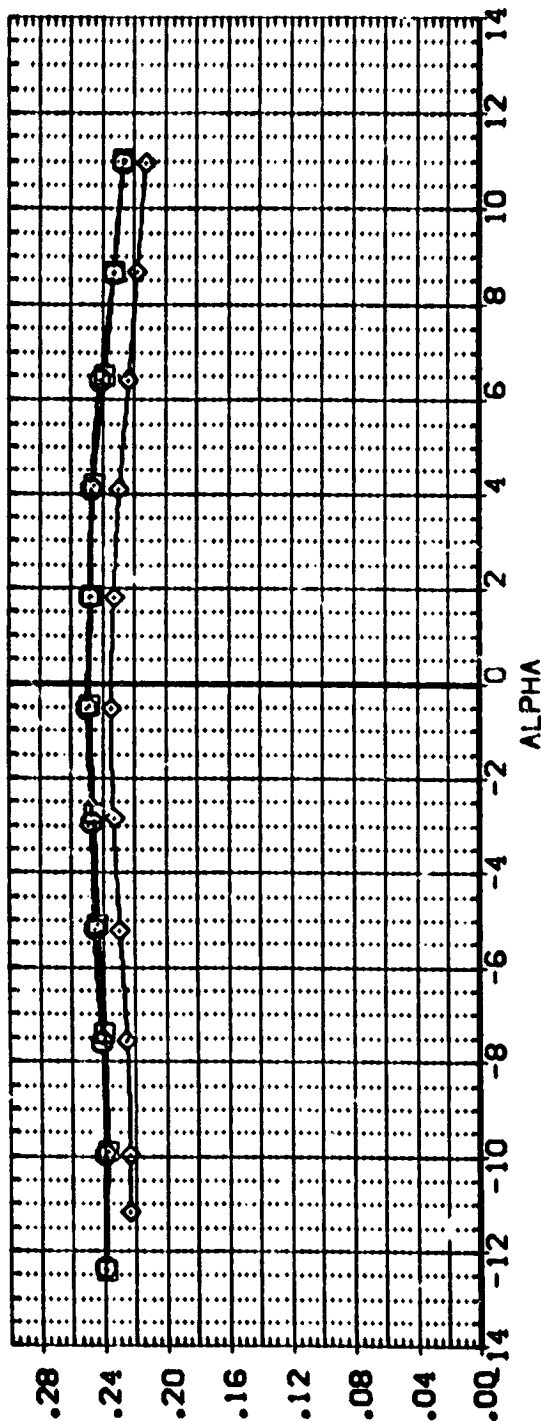
EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(D)MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [802004] LRC 8 TPT 657 [A1] TIP1SIP20
 [808006] LRC 8 TPT 657 [A1] 14P6SIP20
 [808006] LRC 8 TPT 657 [A1] 12P4SIP20

BETA RUDDER
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REFERENCE INFORMATION
 SREF 2650.0000 SQ.FT.
 LREF 1250.3000 INCHES
 BREF 1250.3000 INCHES
 XMRP 576.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

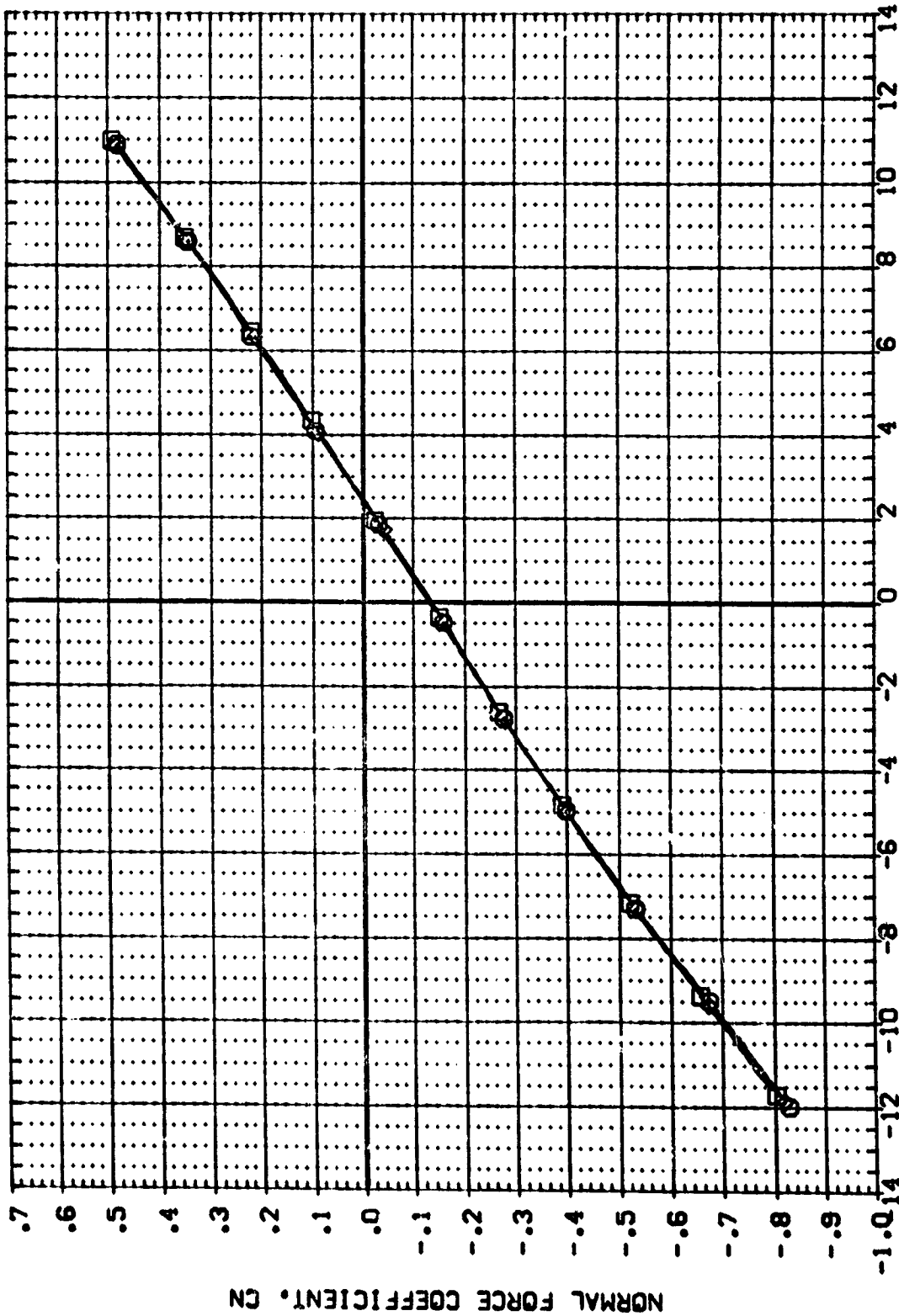
(E)MACH = 1.20



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808004) LRC 8 TPT 667 [A1] 11P[S]P20]
 (808005) LRC 8 TPT 667 [A1] 14P[S]P20]
 (808009) LRC 8 TPT 667 [A1] 12P[S]P20]

BETA RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1250.3000 IN.-ES
 BREF 1250.3000 IN.-ES
 XMRP 976.0000 IN.-ES
 YMRP .0000 IN.-ES
 ZMRP 400.0000 IN.-ES
 SCALE .0150 SCALE



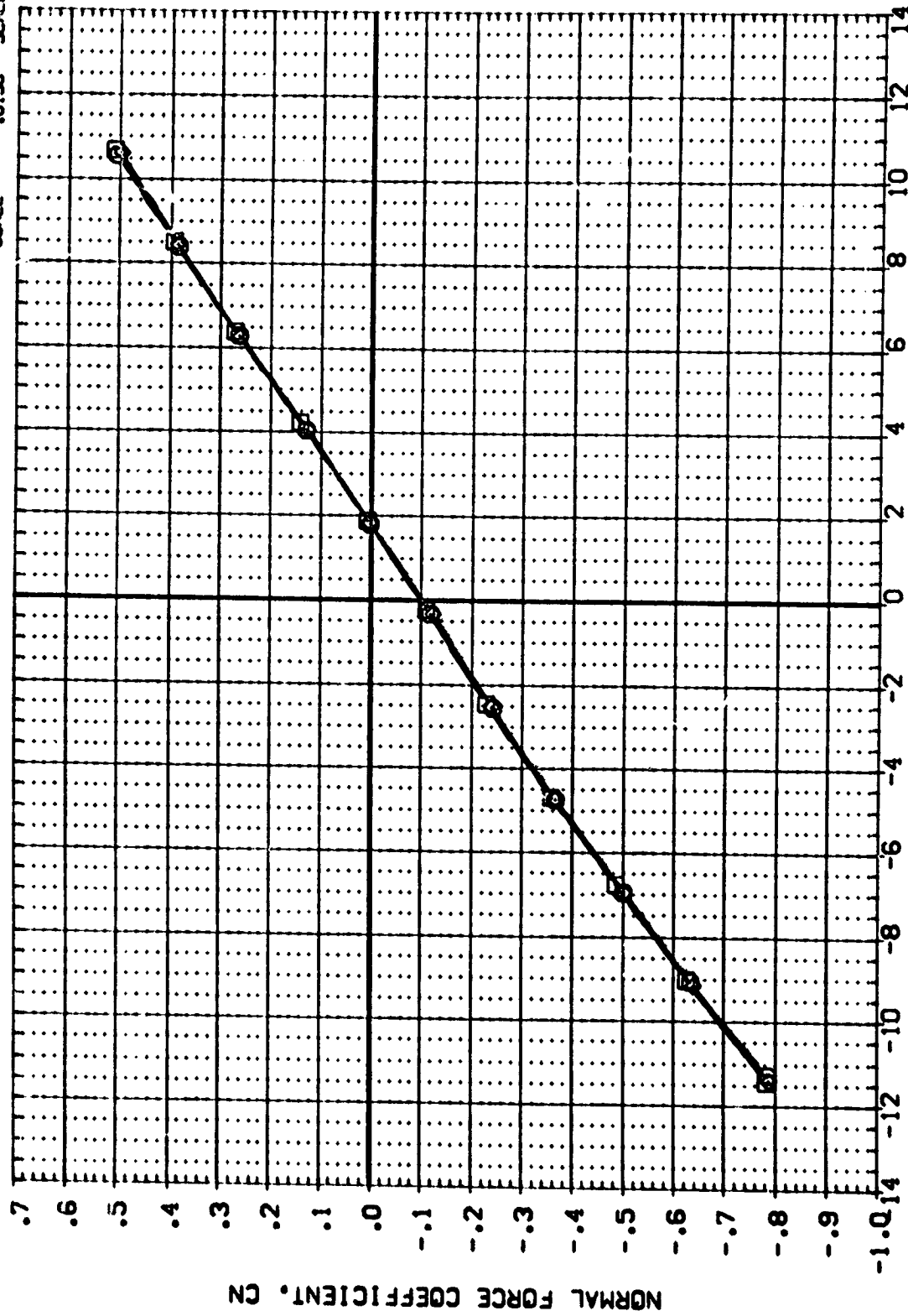
ANGLE OF ATTACK, ALPHA, DEGREES
 EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(M)MACH = .60

DATA SET SYMBOL: Q
 CONFIGURATIC: DESCRIPTION
 RC 8 IPT 557 [A4] TIPS [P20]
 LRC 8 IPT 557 [A4] TIPS [P20]
 LRC 8 IPT 557 [A4] TIPS [P20]

BETA: .000
 RUDDER: .000
 .000

REFERENCE INFORMATION
 SREF: 2650.0000 SO.FT.
 LREF: 1250.3000 INCHES
 BREF: 1250.3000 INCHES
 XMRP: 976.0000 INCHES
 YMRP: 400.0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150



EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

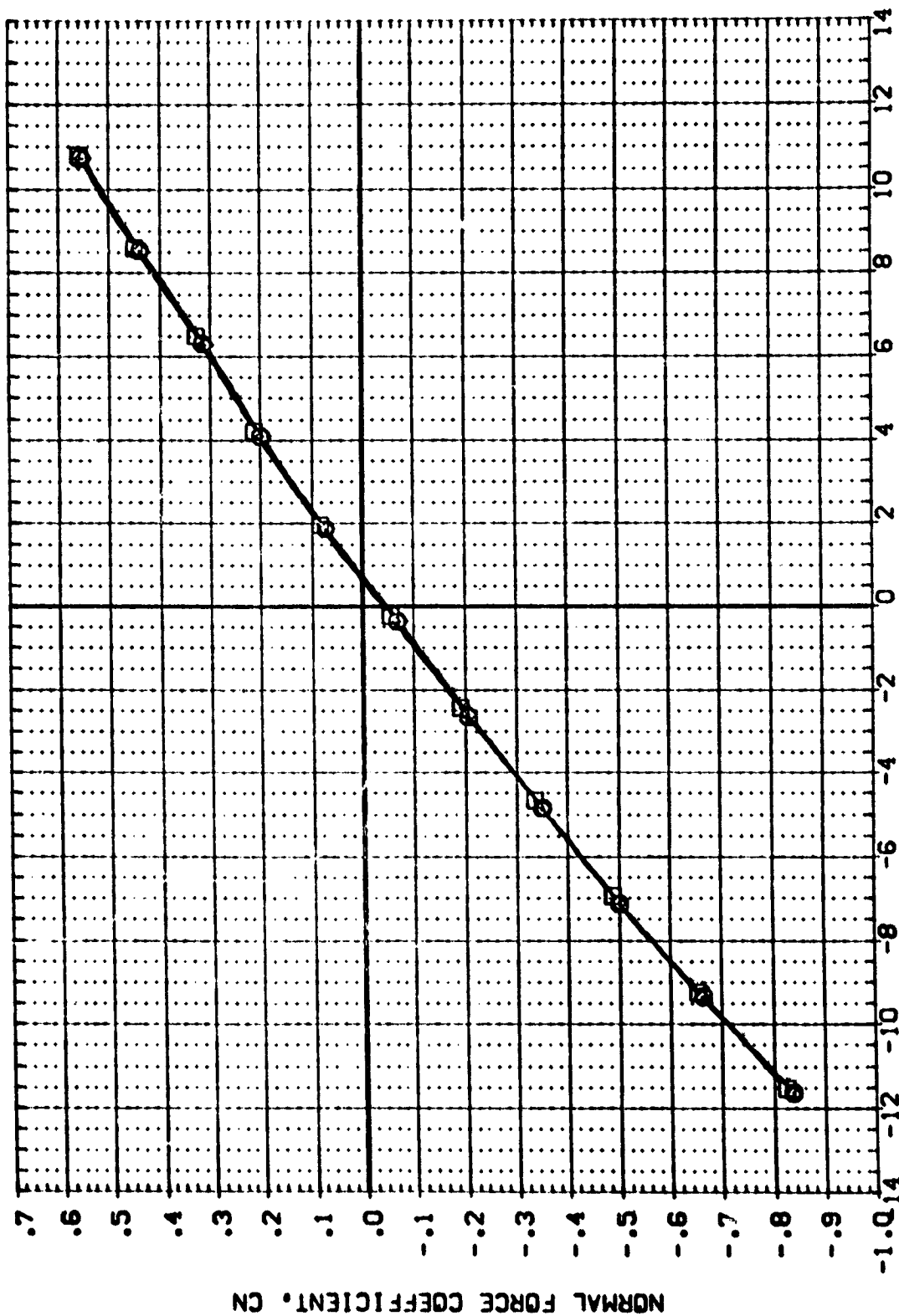
(B)MACH = .80



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808004) LRC 8 TPT 667 [A4] TIP1SIP201
 (808005) LRC 8 TPT 667 [A4] T4P6SIP201
 (808006) LRC 8 TPT 667 [A4] T2P4SIP201

BETA RUDDER
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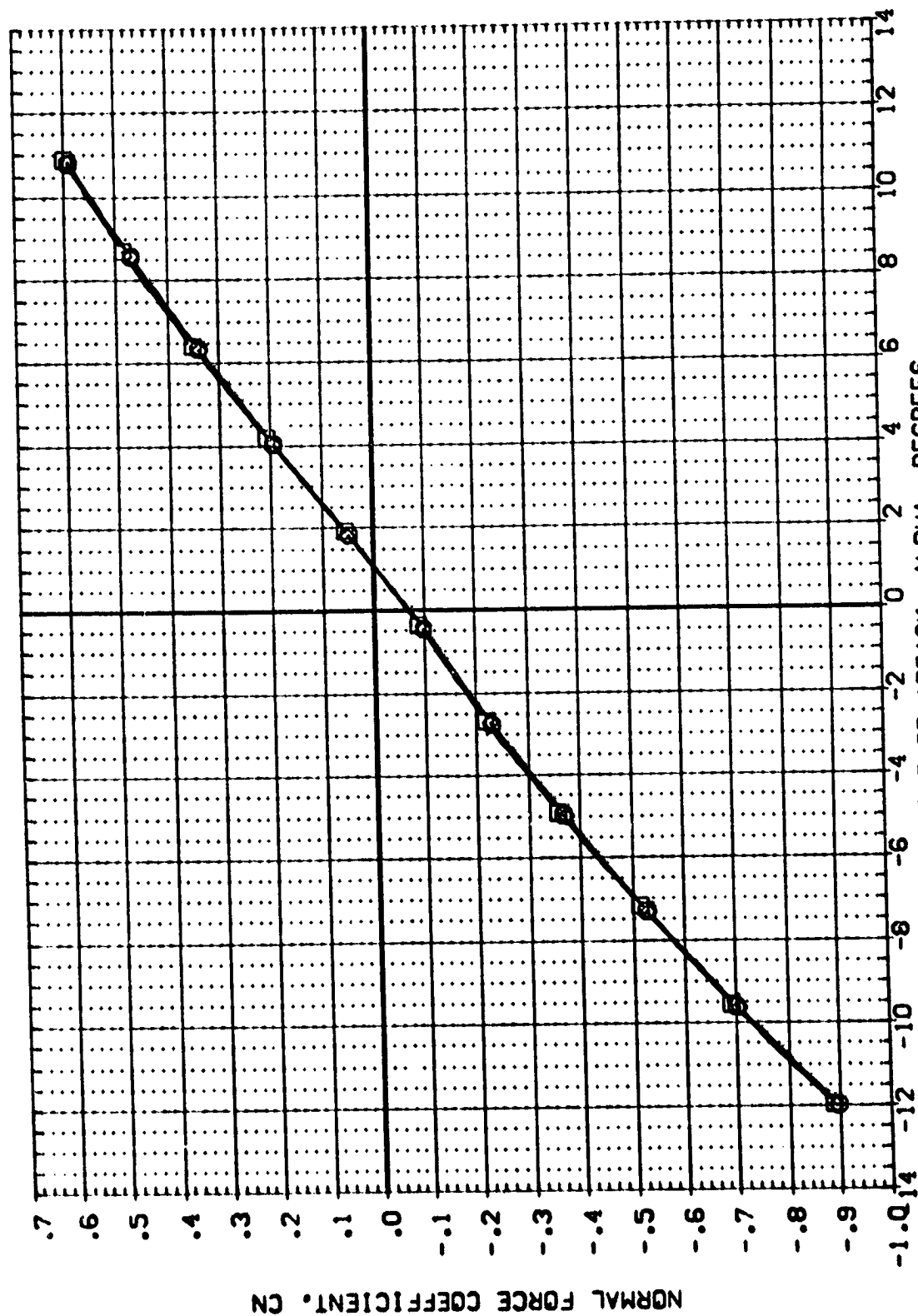
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 XMRP 976.0000 IN-ES
 YMRP 400.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150



EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(C)MACH = .90

DATA SET SYMBOL		CONFIGURATION		DESCRIPTION
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80005	C	8	PT	11-51S1P20
80006	C	8	PT	11-51S1P20



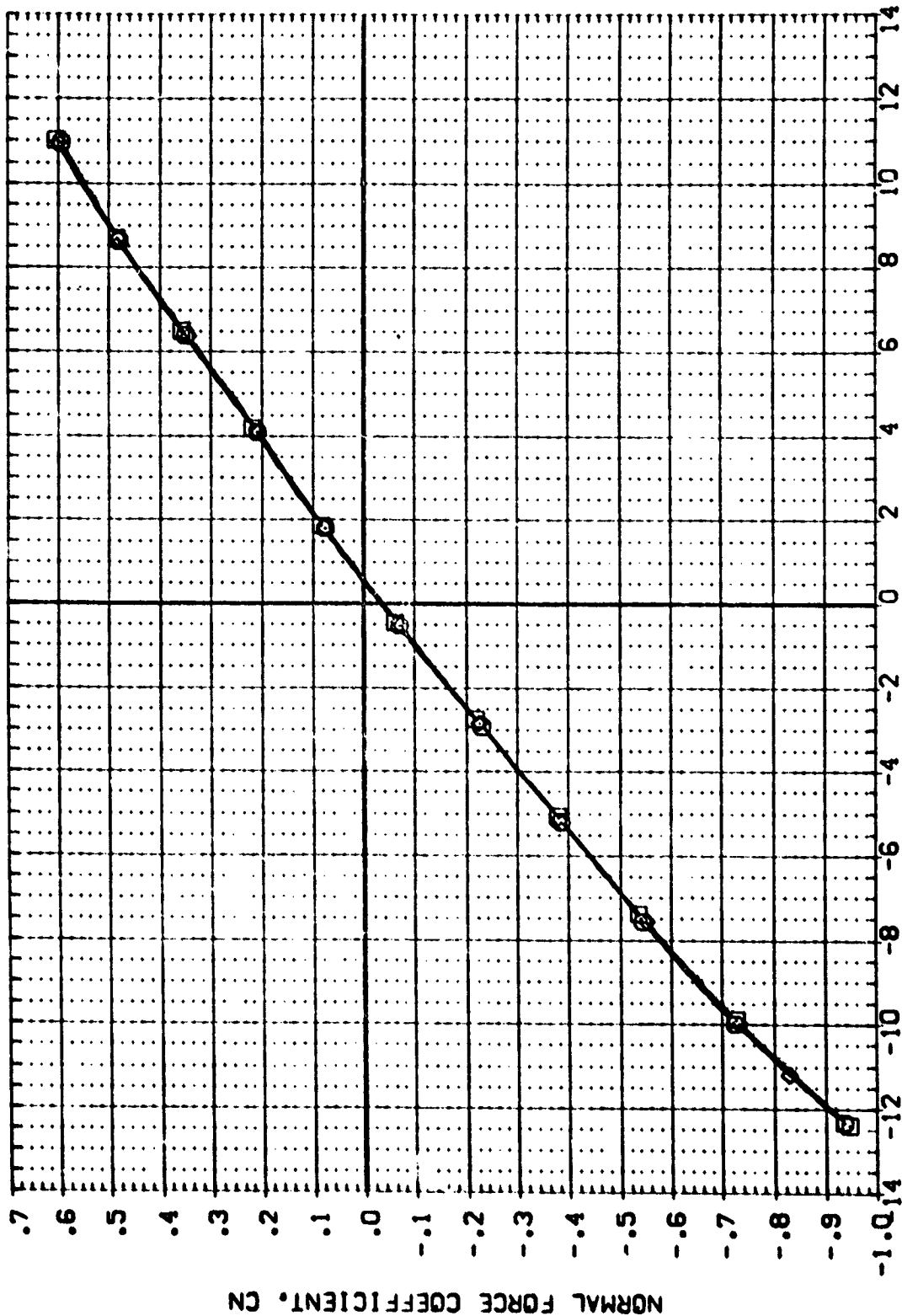
ANGLE OF ATTACK, ALPHA, DEGREES

$$(C_0)_{MACH} = .98$$


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B08004) LRC 8 TPT 657 [A1] TIP1SIP201
 (B08006) LRC 8 TPT 657 [A1] T4P6SIP201
 (B08008) LRC 8 TPT 657 [A1] T2P4SIP201

BETA RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



ANGLE OF ATTACK, ALPHA, DEGREES
 EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

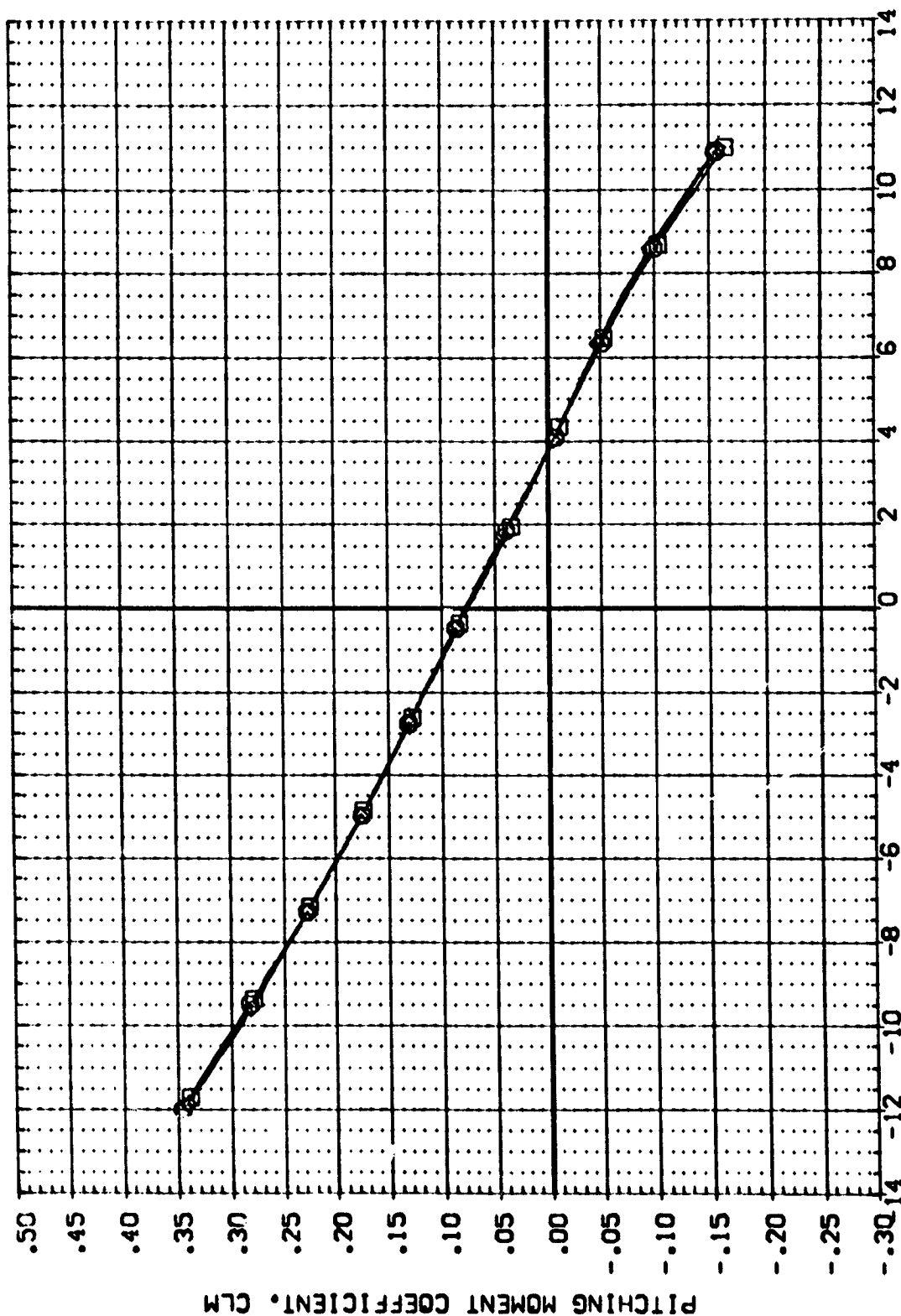
(E)MACH = 1.20



REFERENCE INFORMATION
SREF 2690.0000 SQ.FT
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 400.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150

BETA RUDDER
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DATA SET SYMBOL CONFIGURATION DESCRIPTION
[3080C4] LRC 8 TPT 637 [A1] T1P1S1P201
[3080C5] LRC 8 TPT 637 [A1] T4P6S1P201
[3080C6] LRC 8 TPT 637 [A1] T2P4S1P201



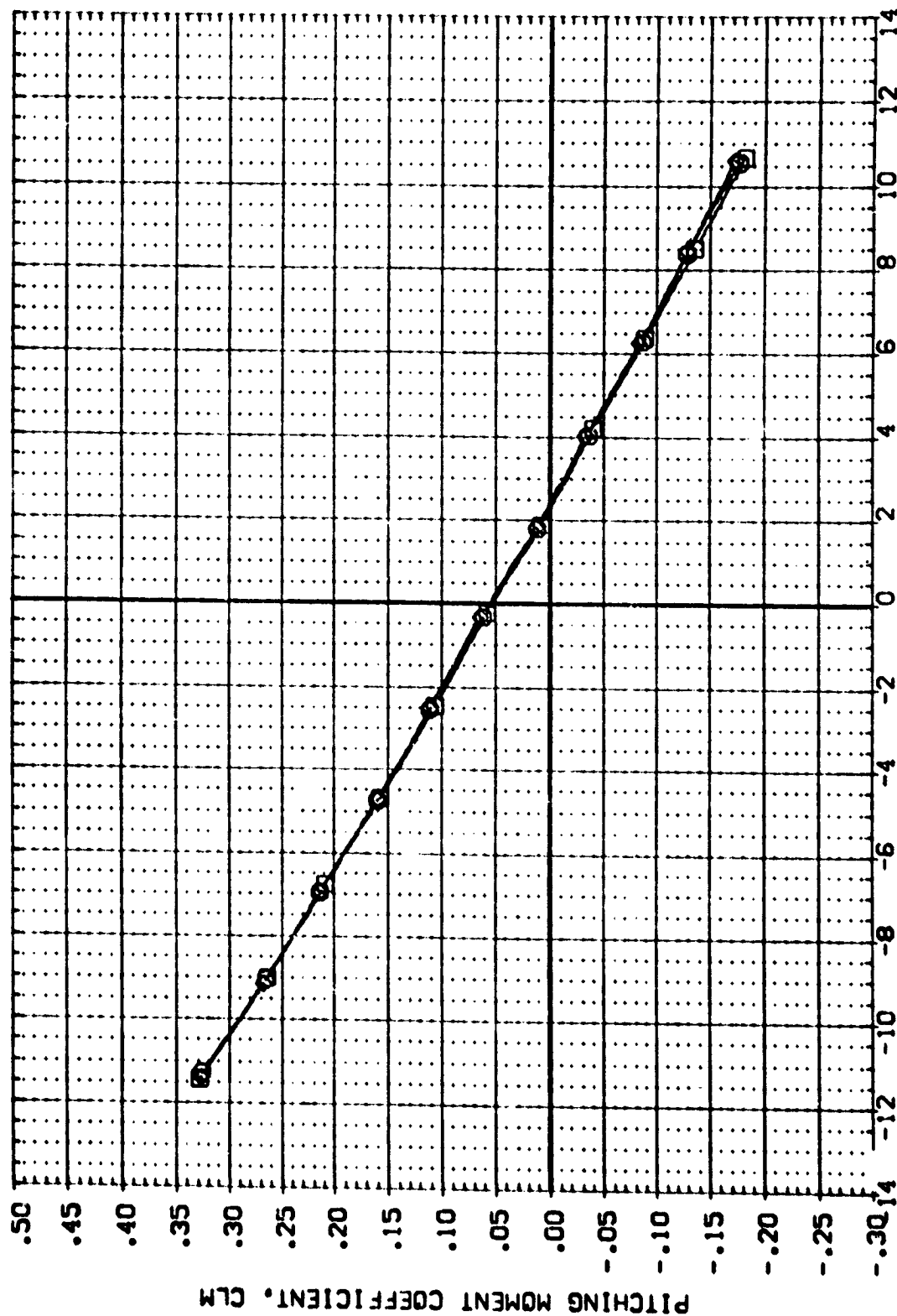
EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(MACH = .60)

DAT/ SET SYMBOL CONFIGURATION DESCRIPTION
 (808004) □ RC 8 TPT 667 1A41 T1P1S1P201
 (808005) □ RC 8 TPT 667 1A41 T4P6S1P201
 (808006) □ RC 8 TPT 667 1A41 T2P4S1P201

BETA RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.0000 IN-ES
 BREF 1290.0000 IN-ES
 XMRP 576.0000 IN-ES
 YMRP 400.0000 IN-ES
 ZMRP 100.0000 IN-ES
 SCALE .0150 SCALE

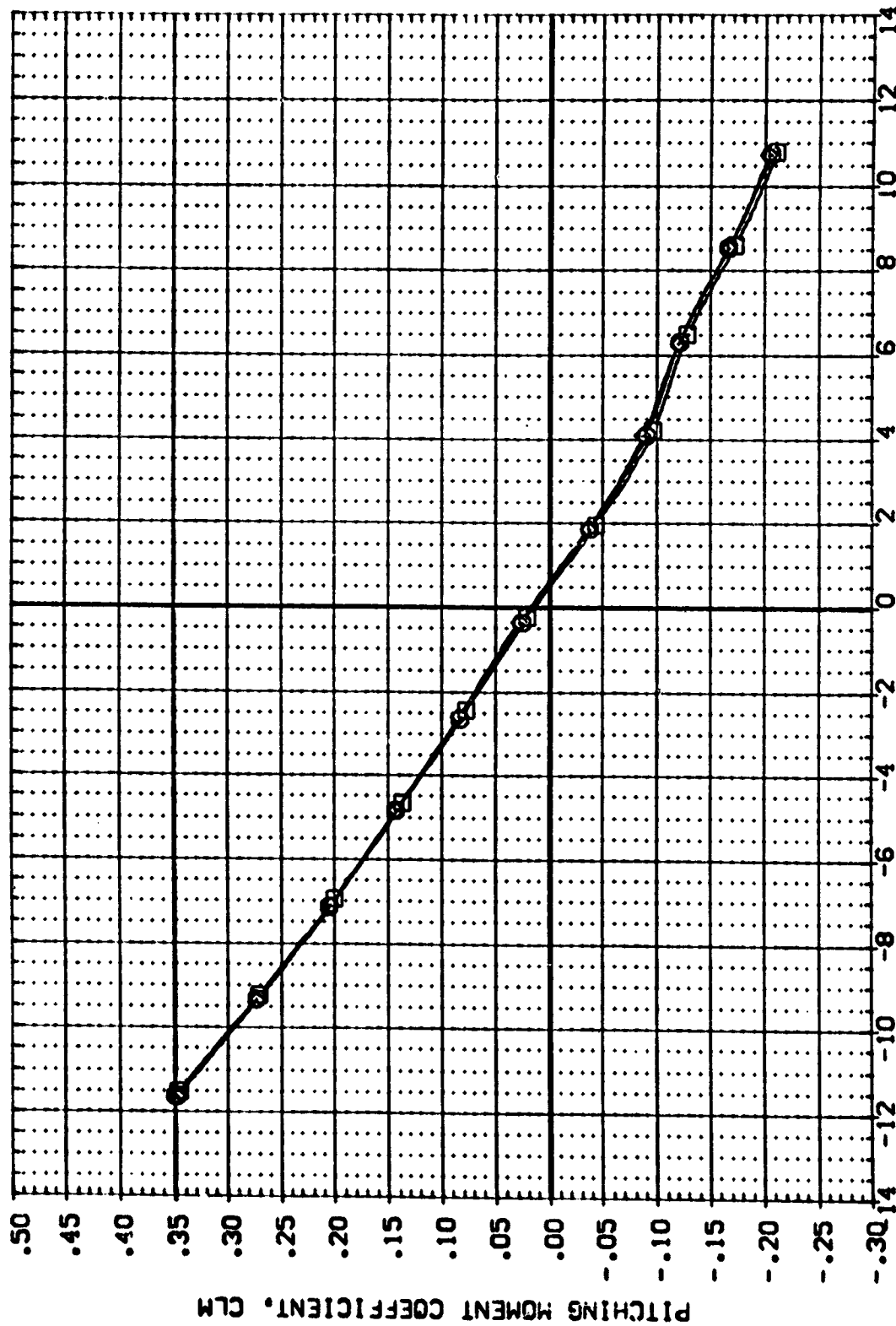


EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS
 (B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [B0800] LRC 8 TPT 667 [A4] T1P1S[P20]
 [B0800] LRC 8 TPT 667 [A4] T4P6S[P20]
 [B0800] LRC 8 TPT 667 [A4] T2P4S[P20]

BETA RUDDER
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REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.300 INCHES
 BREF 1290.300 INCHES
 XMRP 976.0000 INCHES
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 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

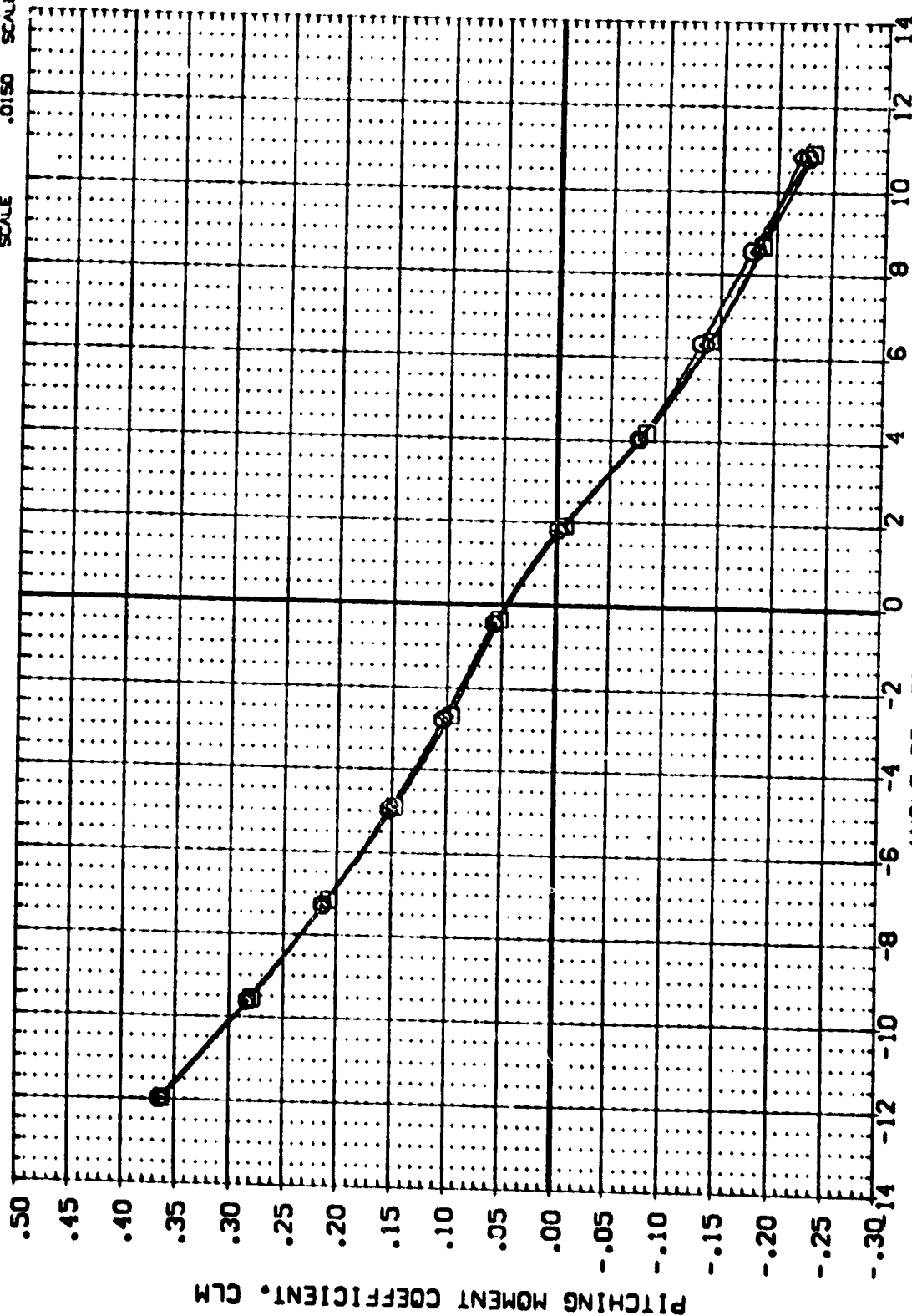
(C)MACH = .90



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (809004) Q LRC 8 TPT 667 [A4] T1P15[P20]
 (808005) LRC 8 TPT 667 [A4] T4P65[P20]
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BETA RUDDER
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REFERENCE INFORMATION
 SPREF 2690.0000 SQ.FT.
 LREF 1290.3000 IN.-CS
 BREF 1290.3000 IN.-CS
 XMRP 976.0000 IN.-CS
 YMRP 400.0000 IN.-CS
 ZMRP 400.0000 IN.-CS
 SCALE .0150 SCALE



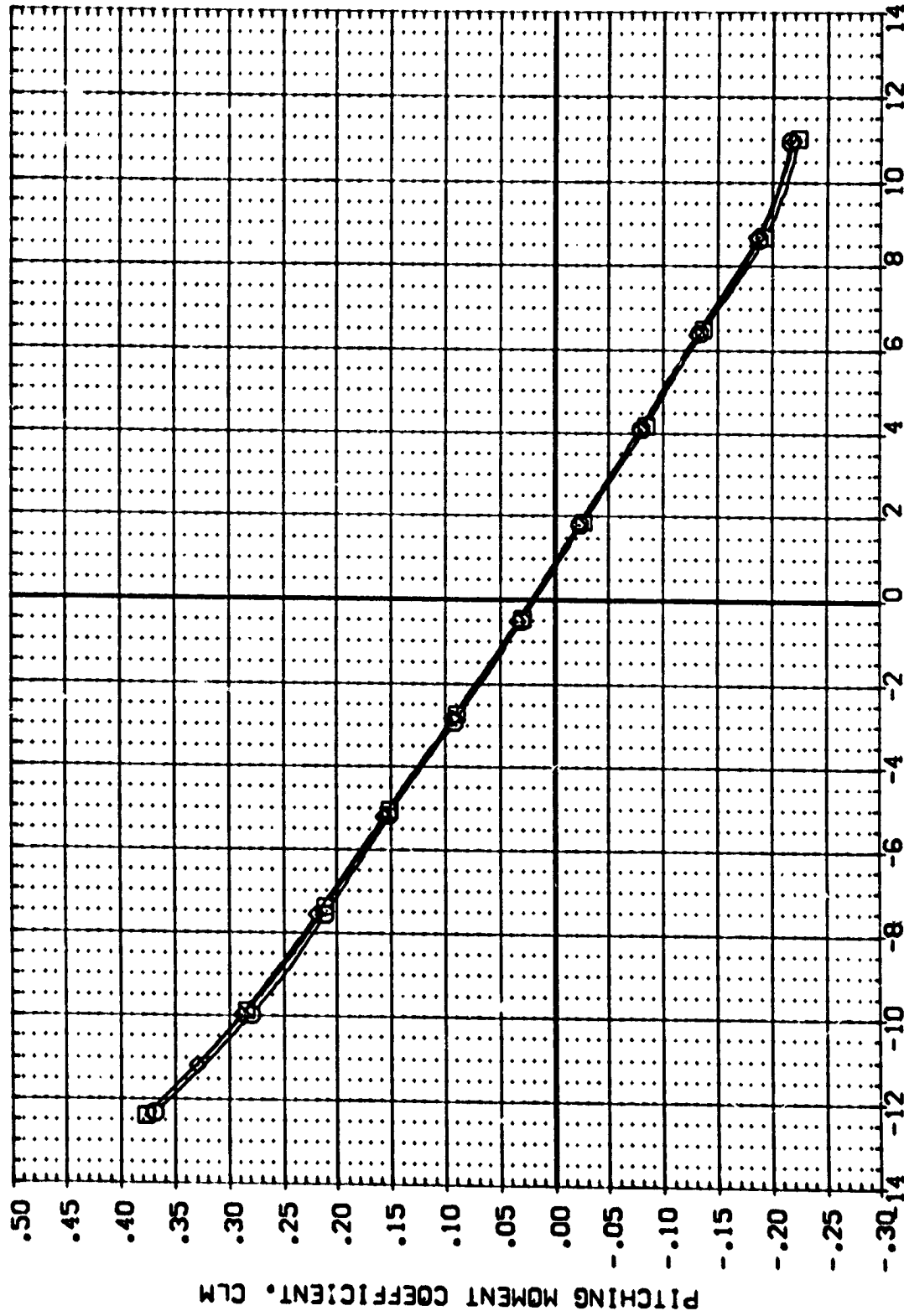
EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(0)MACH = .98

DATA SET SY:201 CONFIGURATION DESCRIPTION
 (808004) LRC 8 TPT 667 [A4] T1P1S[P201]
 (808006) LRC 8 TPT 667 [A4] T4P6S[P201]
 (808009) LRC 8 TPT 667 [A4] T2P4S[P201]

BETA RUDDER
 .000 .000
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



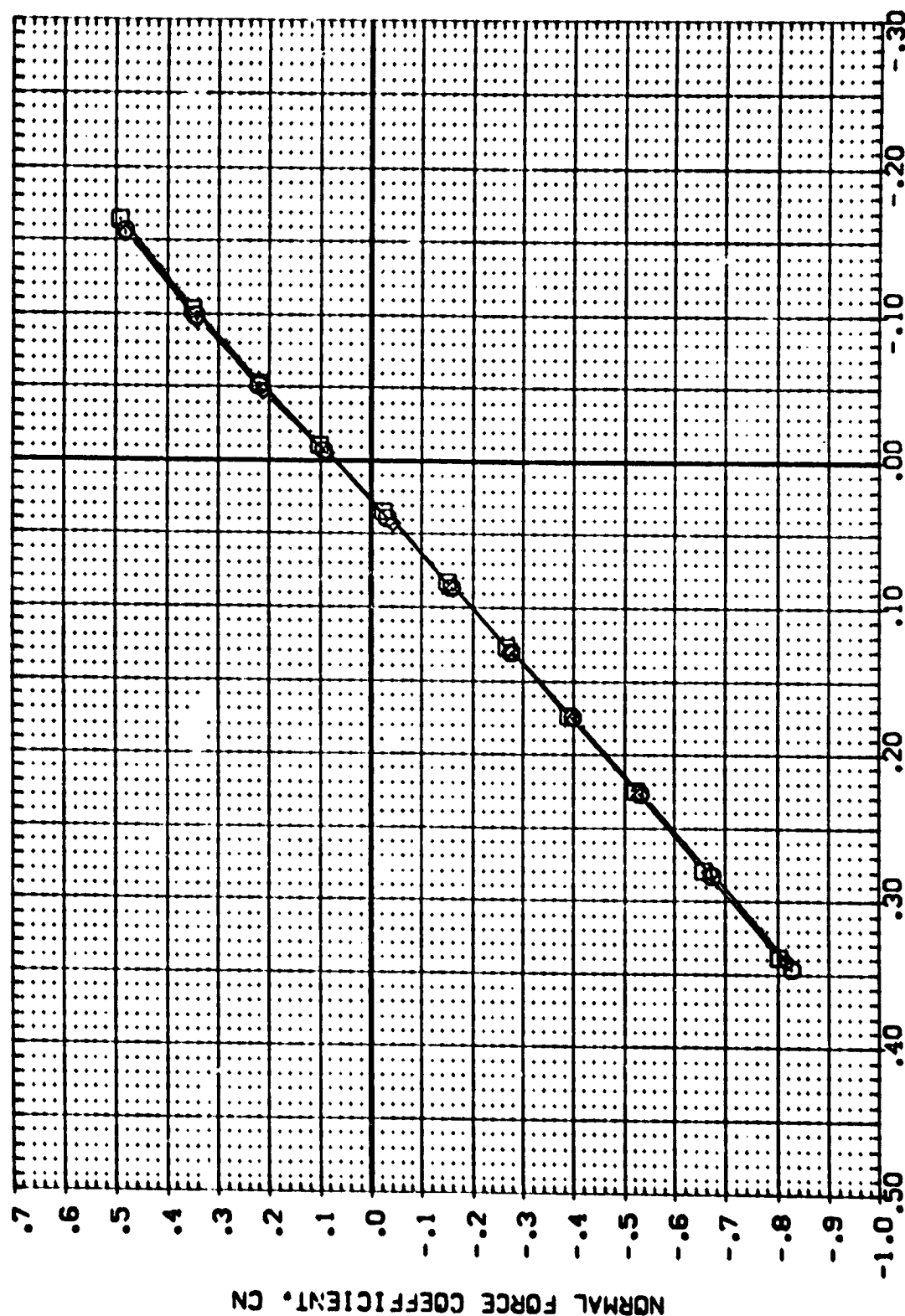
EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B08004) LRC 8 TPT 657 [A4] T1P P201
 (B08005) LRC 8 TPT 657 [A4] T4P P201
 (B08006) LRC 8 TPT 657 [A4] T2P4S/P201

BETA RUDDER
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 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XTRP 976.0000 INCHES
 YTRP 400.0000 INCHES
 ZTRP 400.0000 INCHES
 SCALE .0150



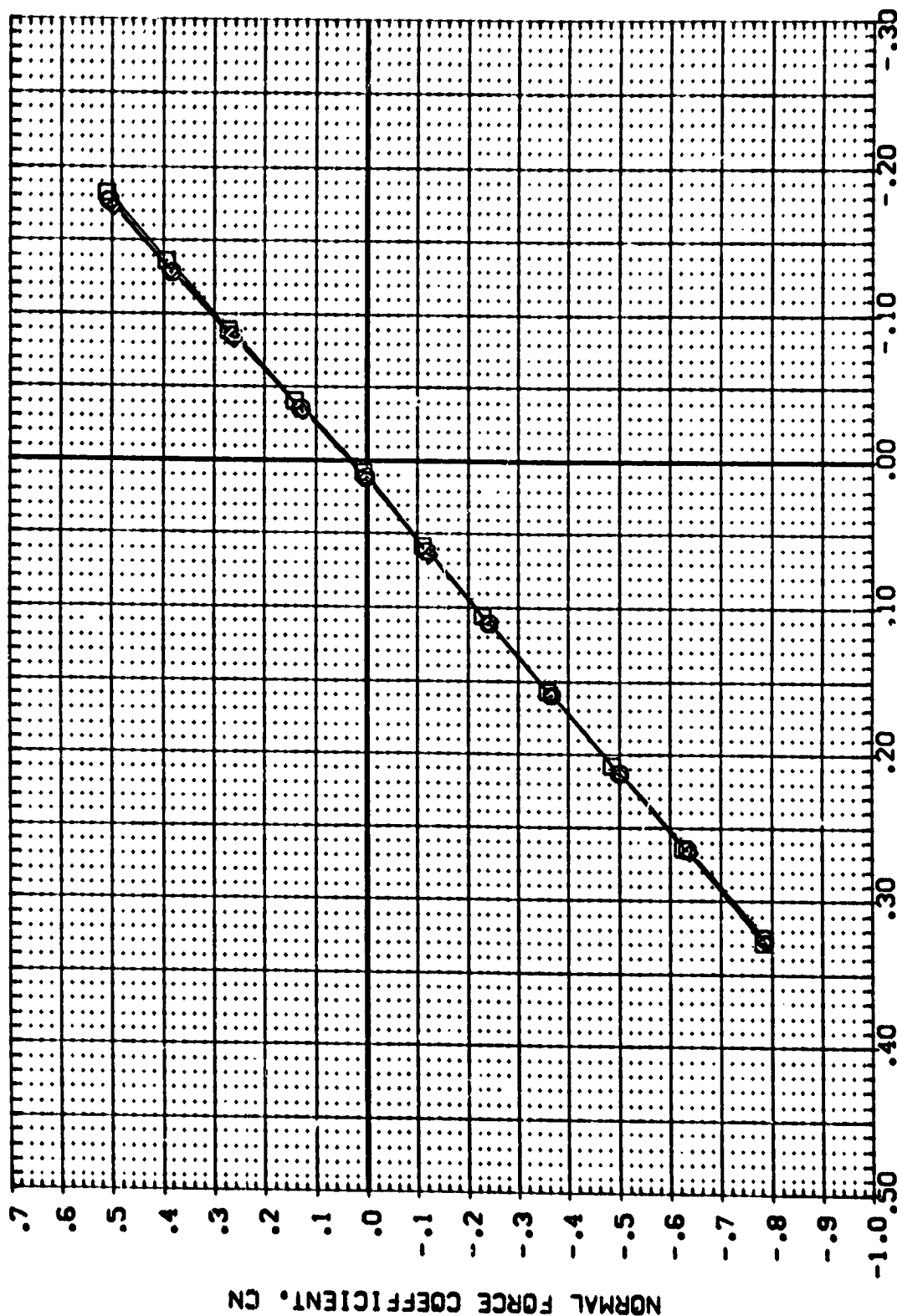
PITCHING MOMENT COEFFICIENT, CLM
 EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 [B08004] LRC 8 TPT 667 [A4] TIP1SIP201
 [B08005] LRC 8 TPT 667 [A4] T4P6SIP201
 [B08006] LRC 8 TPT 667 [A4] T2P4SIP201


BETA RUDDER
 .000 .000
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REFERENCE INFORMATION
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 LREF 1230.3000 INCHES
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 SCALE .0150 SCALE



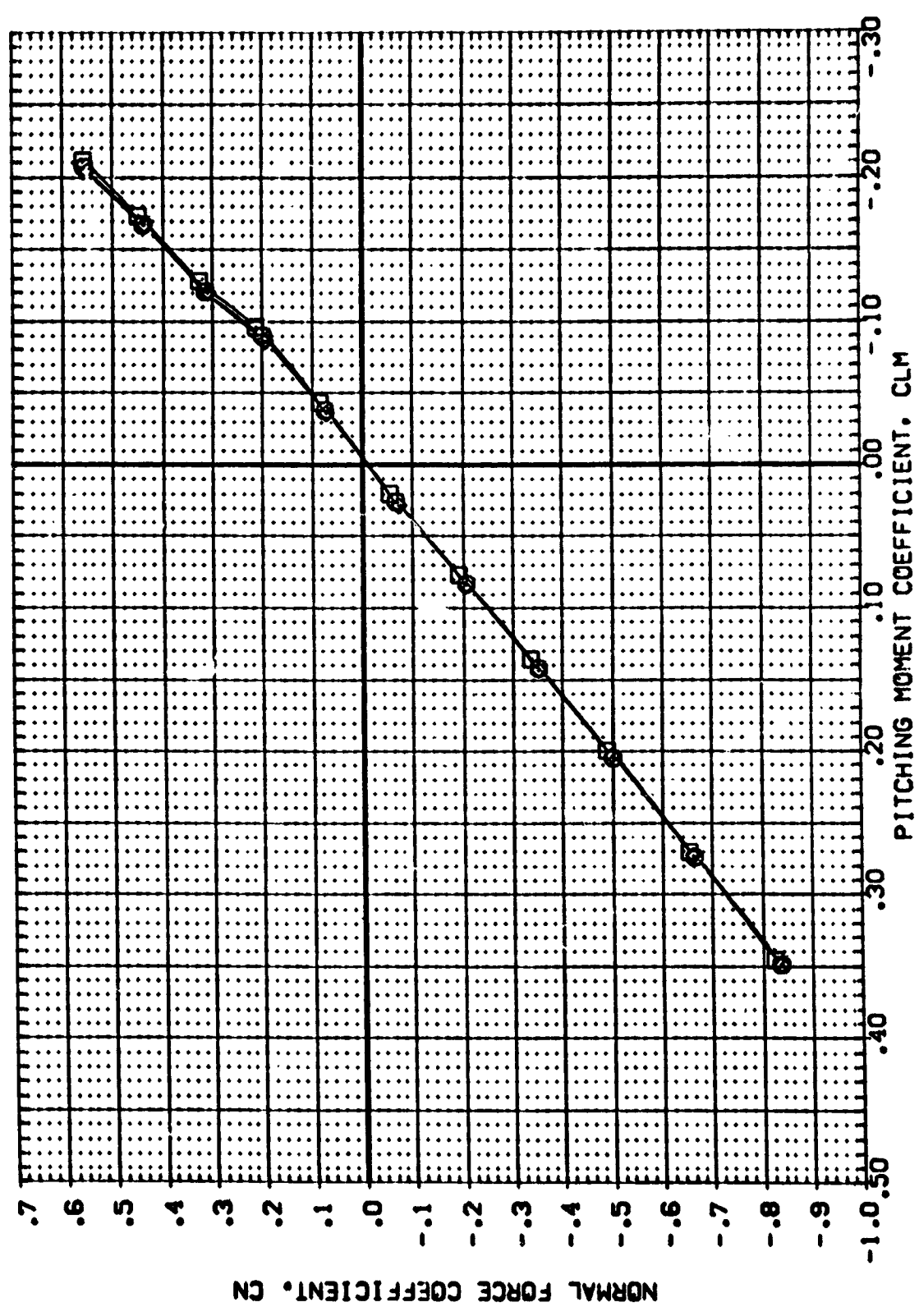
PITCHING MOMENT COEFFICIENT, CLM
 EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(B)MACH = .80

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION:
 LRC 8 TPT 667 [A1] T1P1S1P201
 LRC 8 TPT 667 [A1] T4P6S1P201
 LRC 8 TPT 667 [A1] T2P1S1P201

BETA: .000
 RUDDER: .000

REFERENCE INFORMATION:
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 LREF: 1250.3000 IN.-ES
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 XMRP: 976.0000 IN.-ES
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 ZMRP: 0.0150 IN.-ES
 SCALE: .0150



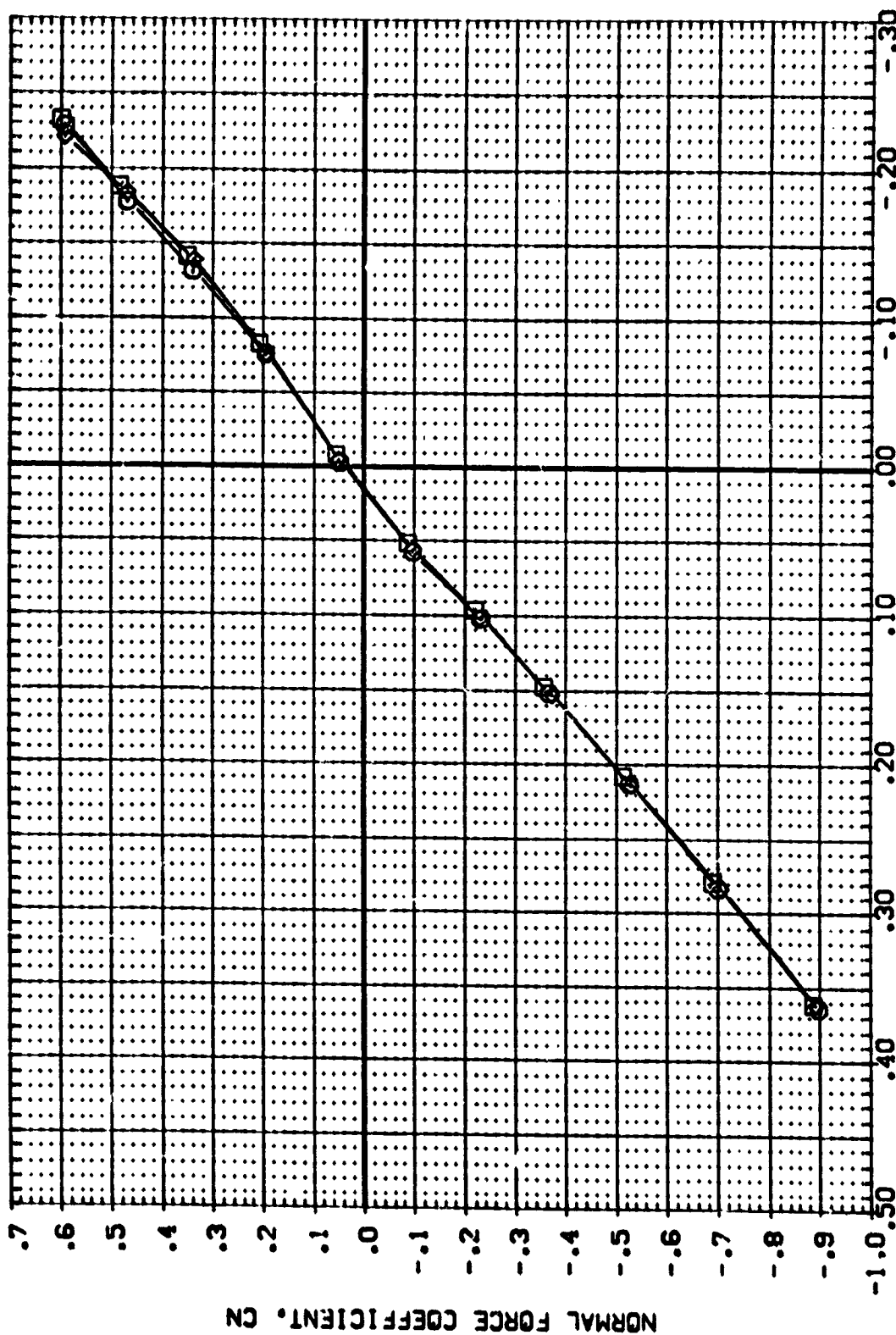
EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(C)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808004) LRC 8 TPT 667 [A4] T1P15[P20]
 (808005) LRC 8 TPT 667 [A4] T4P65[P20]
 (808006) LRC 8 TPT 667 [A4] T2P45[P20]

BETA RUDDER
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REFERENCE INFORMATION
 SREF 2630.0000 SO.FT.
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 BREF 1250.3000 IN-ES
 XREF 978.0000 IN-ES
 YREF 0.0000 IN-ES
 ZREF 400.0000 IN-ES
 SCALE .0150 SCALE



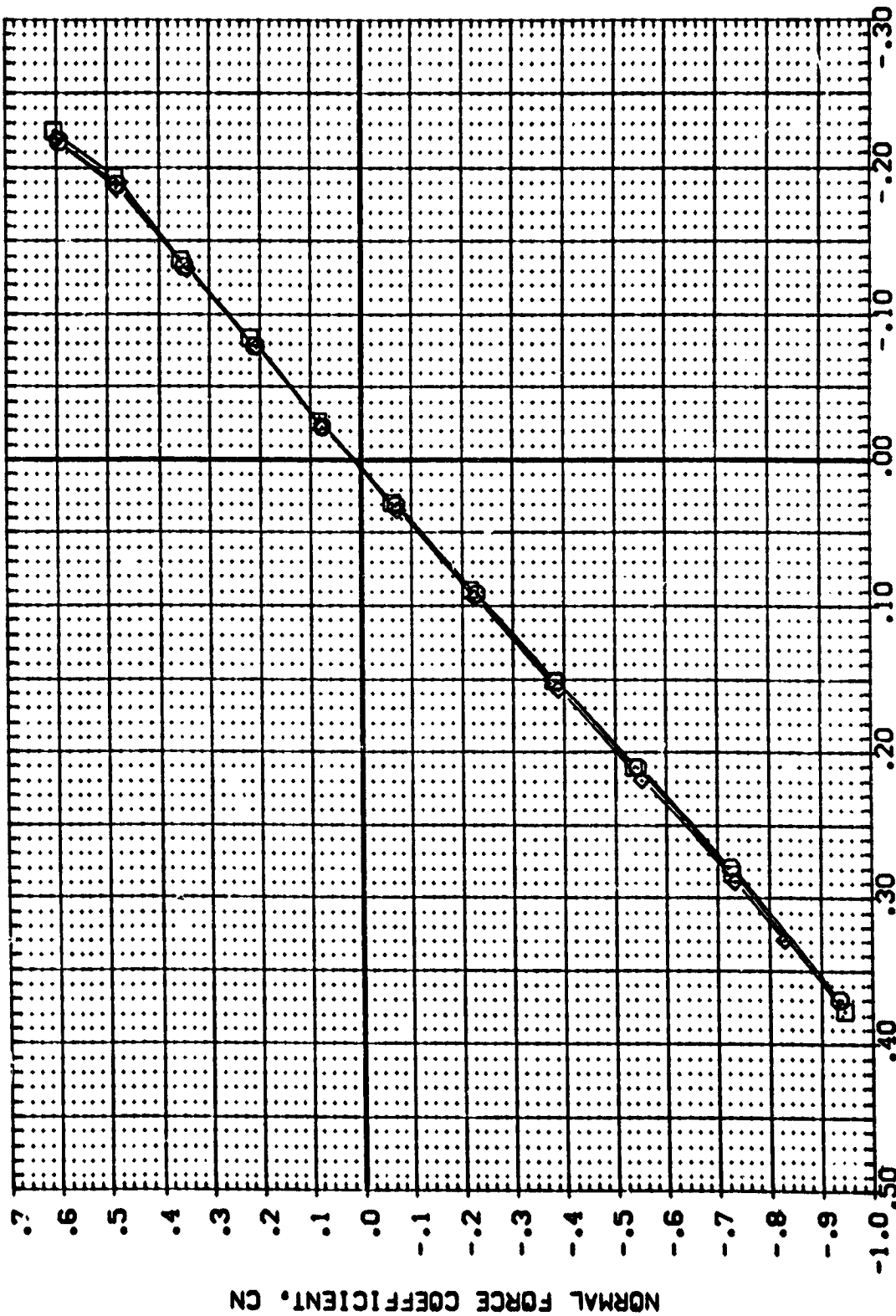
EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(O)MACH = .98

DA1 SET SYMBOL. CONFIGURATION DESCRIPTION
 (B08004) LRC 8 TPT 657 [A4] T1P1S1P201
 (B08005) LRC 8 TPT 657 [A4] T4P6S1P201
 (B08009) LRC 8 TPT 657 [A4] T2P4S1P201

BE RUDER
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 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 127.3000 INCHES
 XMRP 576.00 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 1.20

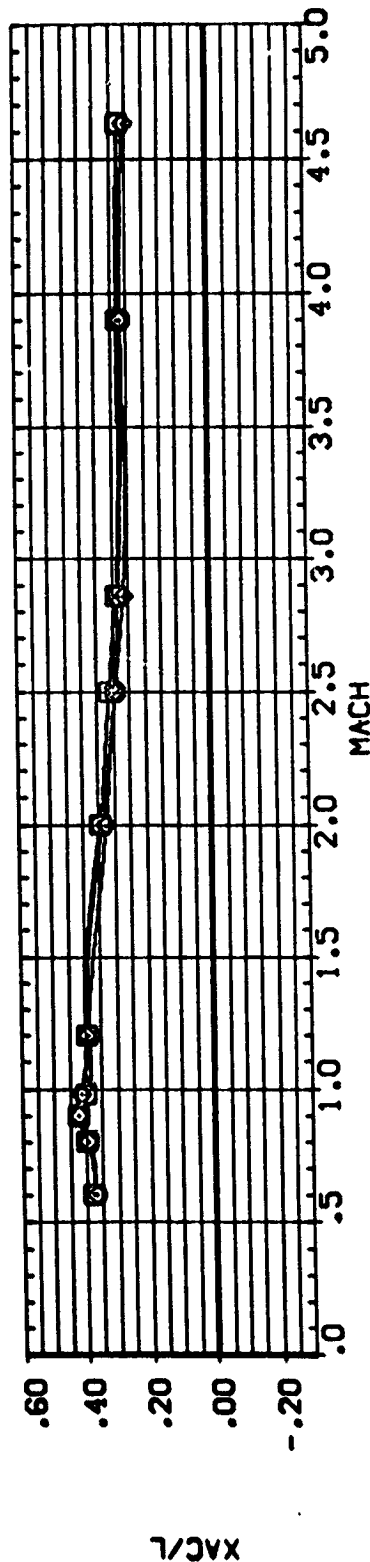
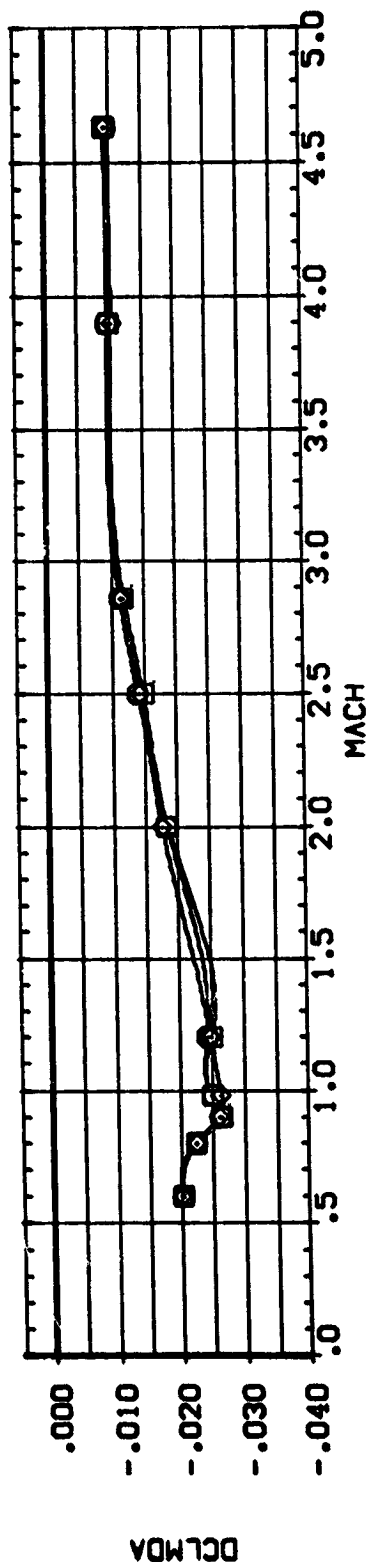
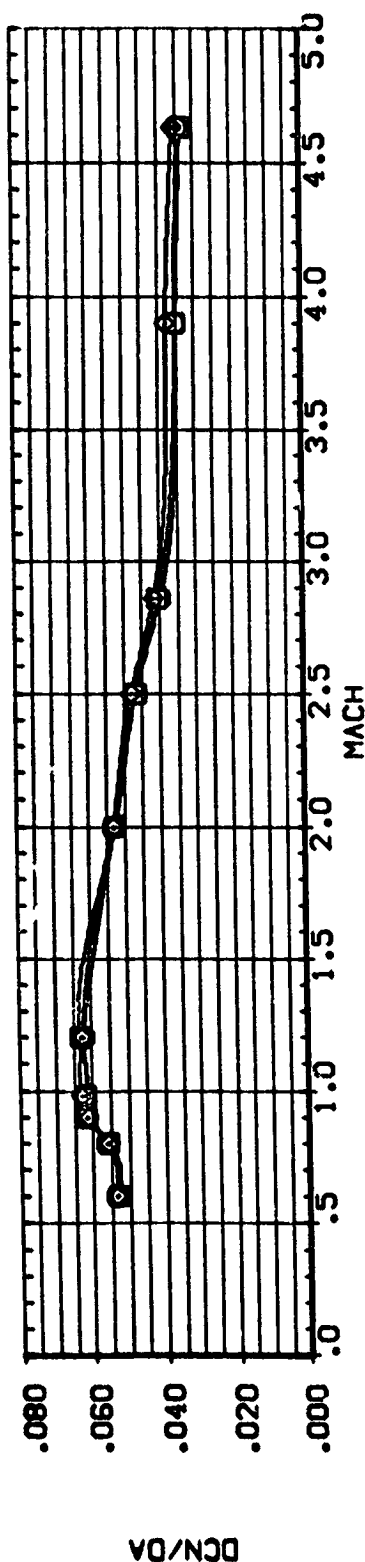
DATA SET SYMBOL
 (G08004)
 (G08005)
 (G08006)

BETA
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 .000
 .000

RUDDER
 .000
 .000
 .000

CONFIGURATION DESCRIPTION
 LARC TESTS [A1] AND [A12A/B]
 LARC TESTS [A1] AND [A12A/B]
 LARC TESTS [A1] AND [A12A/B]

REFERENCE INFORMATION
 SREF 2690.0000 50 FT.
 LREF 1290.3000 INCHES
 XREF 1290.3000 INCHES
 YHREF 976.0000 INCHES
 ZHREF 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL

[C08004] □

[C08005] ○

[C08008] ◇

CONFIGURATION DESCRIPTION

LARC TESTS [A1] AND [A42A/B]

LARC TESTS [A1] AND [A42A/B]

LARC TESTS [A1] AND [A42A/B]

TIP ISIP201

T4 TESTS P201

T2 TESTS P201

BETA RUDDER

.000 .000 .000

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.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 1290.3000 INCHES

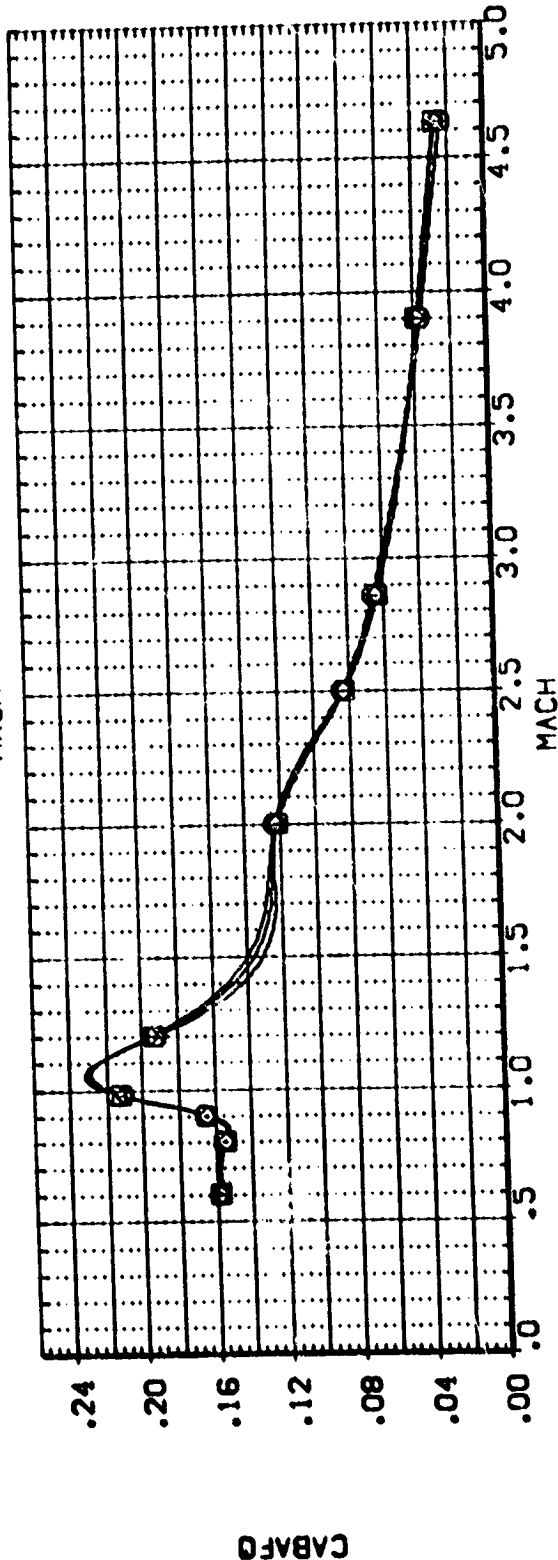
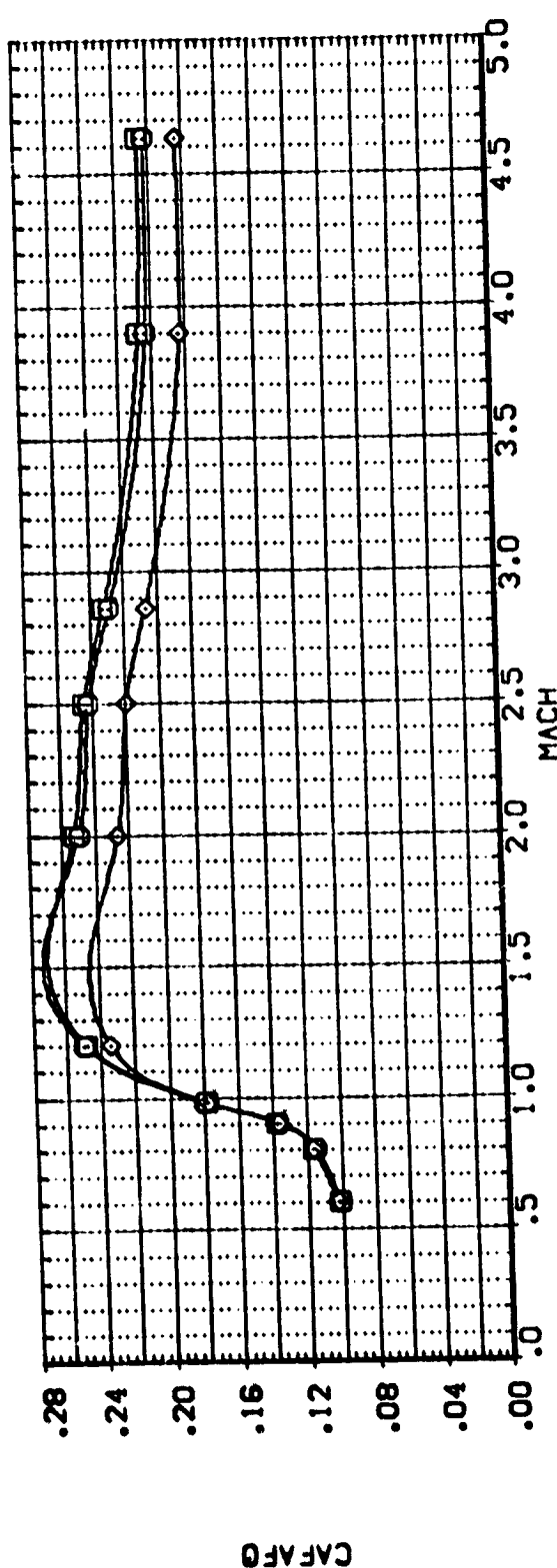
BREF 1290.3000 INCHES

XMRP 976.0000 INCHES

YMRP 400.0000 INCHES

ZMRP 400.0000 INCHES

SCALE .0150



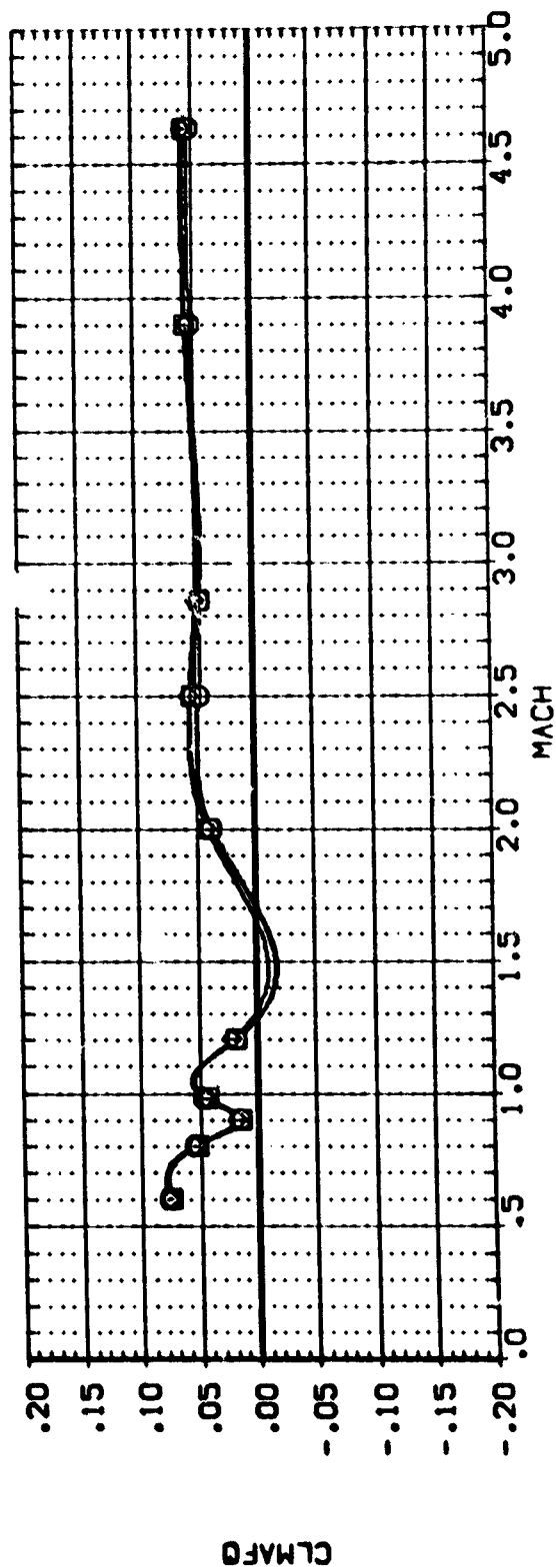
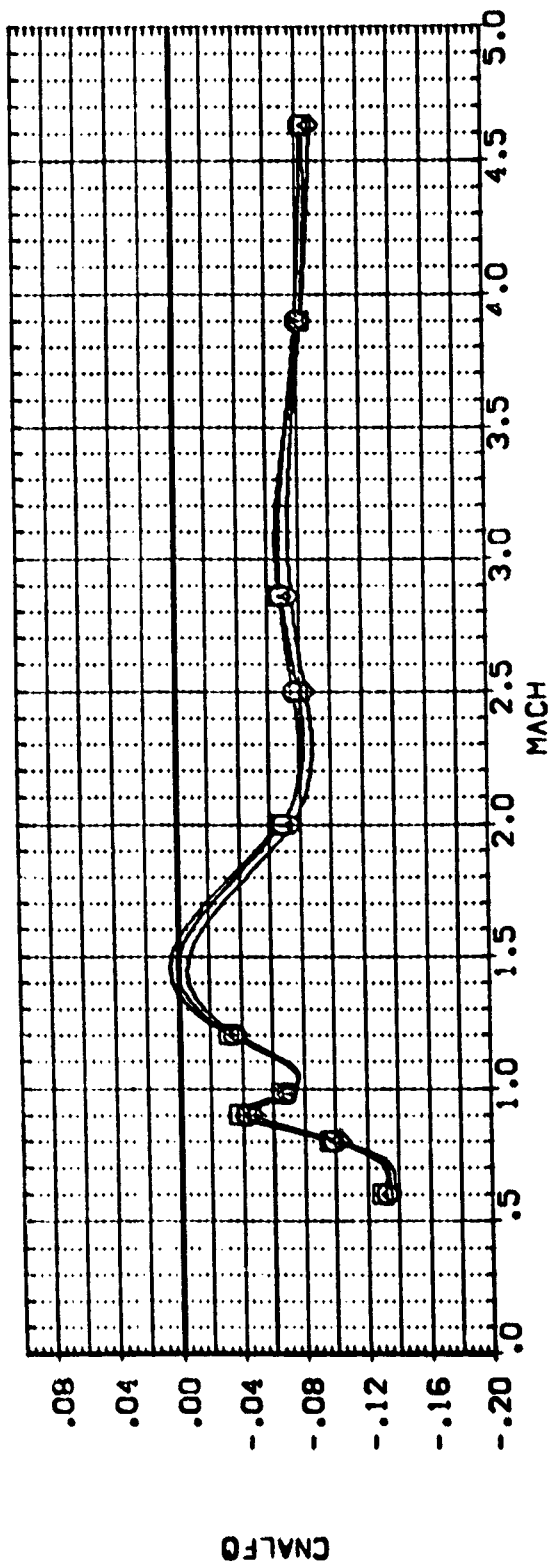
EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

REFERENCE INFORMATION
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 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 975.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA RUDDER
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11.0151.0201
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11.0151.0201
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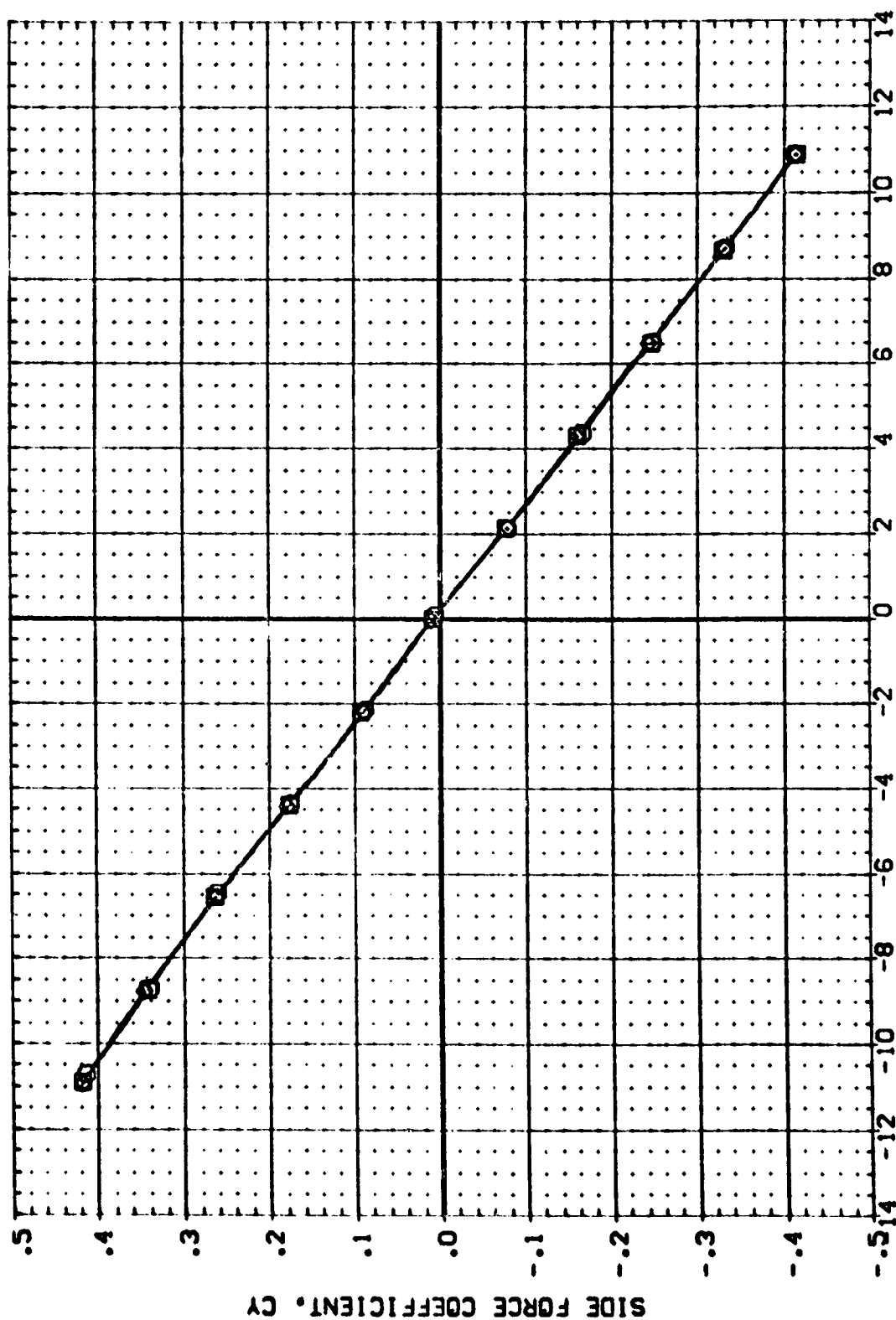


EFFECT OF TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

SET SYMBOL CONFIGURATION DESCRIPTION
 [806 23] LRC 8 TPT 657 1A1 11P1S1P201
 [808 07] LRC 8 TPT 657 1A1 14P6S1P201
 [808 08] LRC 8 TPT 657 1A1 12P4S1P201

ALPHA RUDDER
 .000 .000
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.0000 INCHES
 BREF 1290.0000 INCHES
 YMRP 576.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

(M)MACH = .60

CASE SYMBOL CONFIGURATION DESCRIPTION

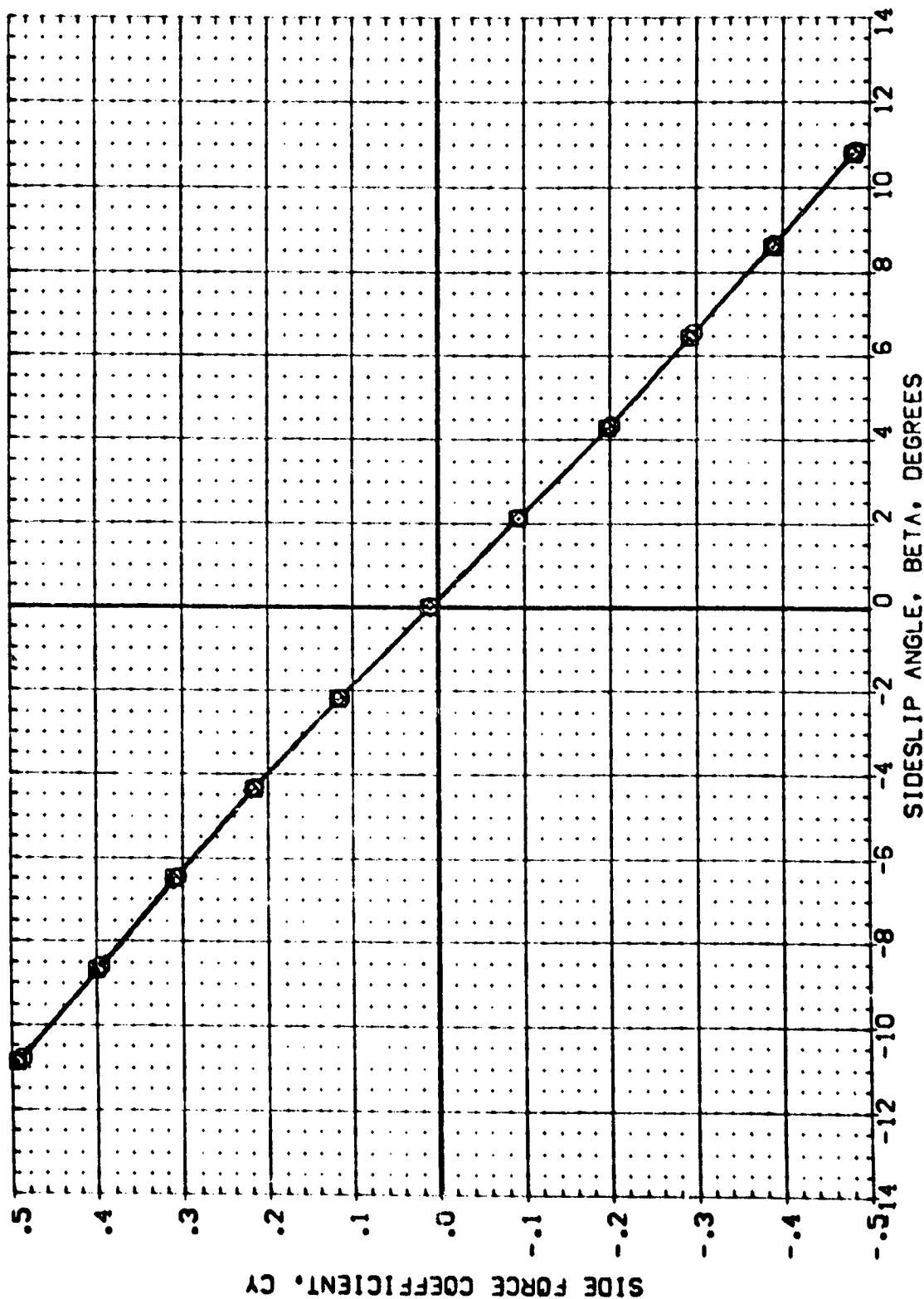
[808003]	□	LRC 8 TPT 667 [A4]	T1P1S[P20]
[808007]	◇	LRC 8 TPT 667 [A4]	T4P6S[P20]
[808008]	◇	LRC 8 TPT 667 [A4]	T2P4S[P20]

ALPHA ROLLER

700	.000
710	.000
720	.000

REFERENCE INFORMATION

SREF	2950.0000	50.00
LREF	1290.3000	INO-ES
BREF	1290.3000	INO-ES
XPRP	976.0000	INO-ES
YPRP	400.0000	INO-ES
ZPRP	400.0000	INO-ES
SCALE	.0150	SCALE



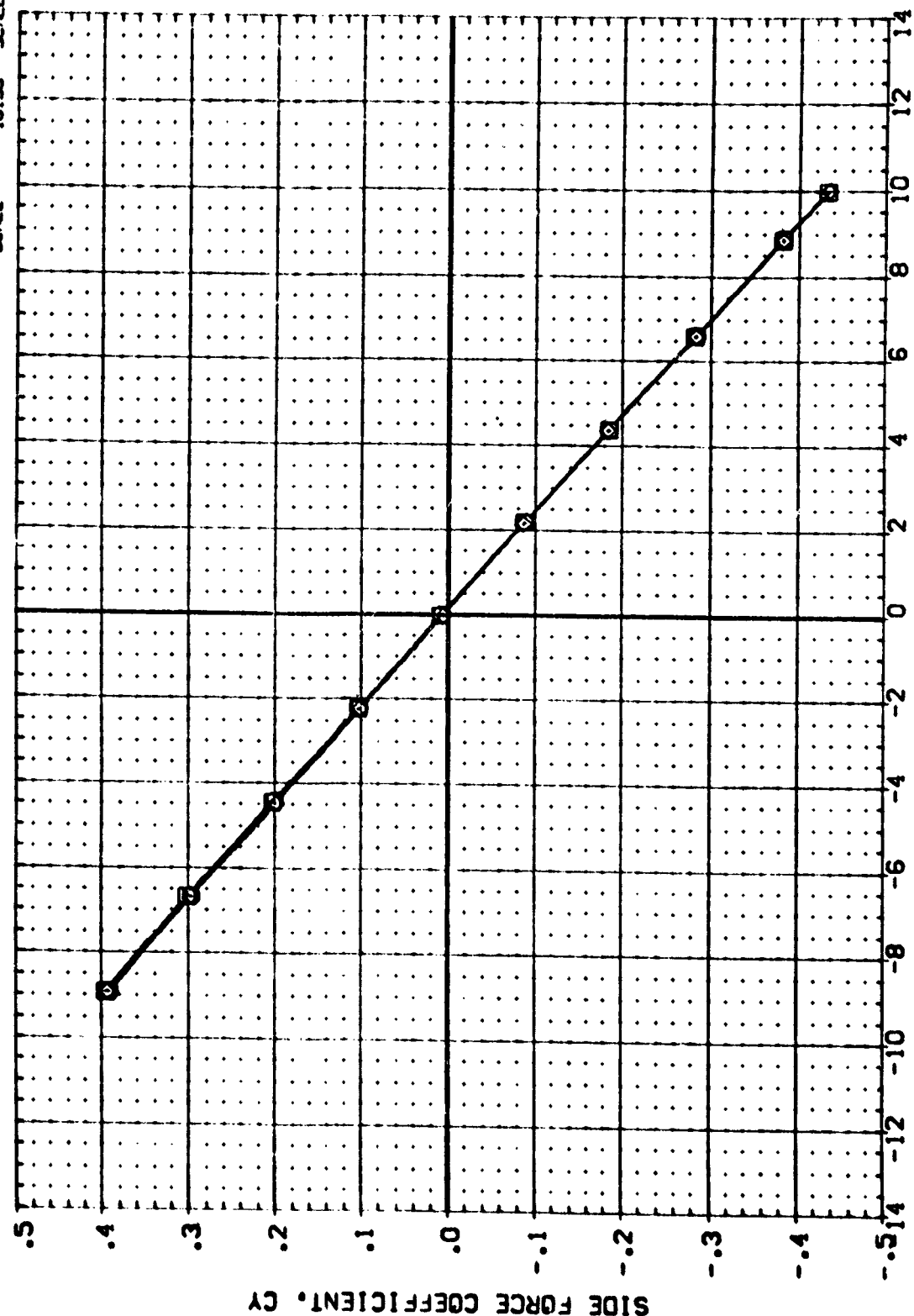
EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

(C)MACH = .89

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808003) RC 8 TPT 657 [A4] TIP1SIP201
 (808007) LRC 8 TPT 657 [A4] TAPSSIP201
 (808008) LRC 8 TPT 657 [A4] T2P4SIP201

ALPHA RUDDER
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 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1290.0000 INCHES
 BREF 1290.0000 INCHES
 YMRP 976.0000 INCHES
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 SCALE .0150 SCALE



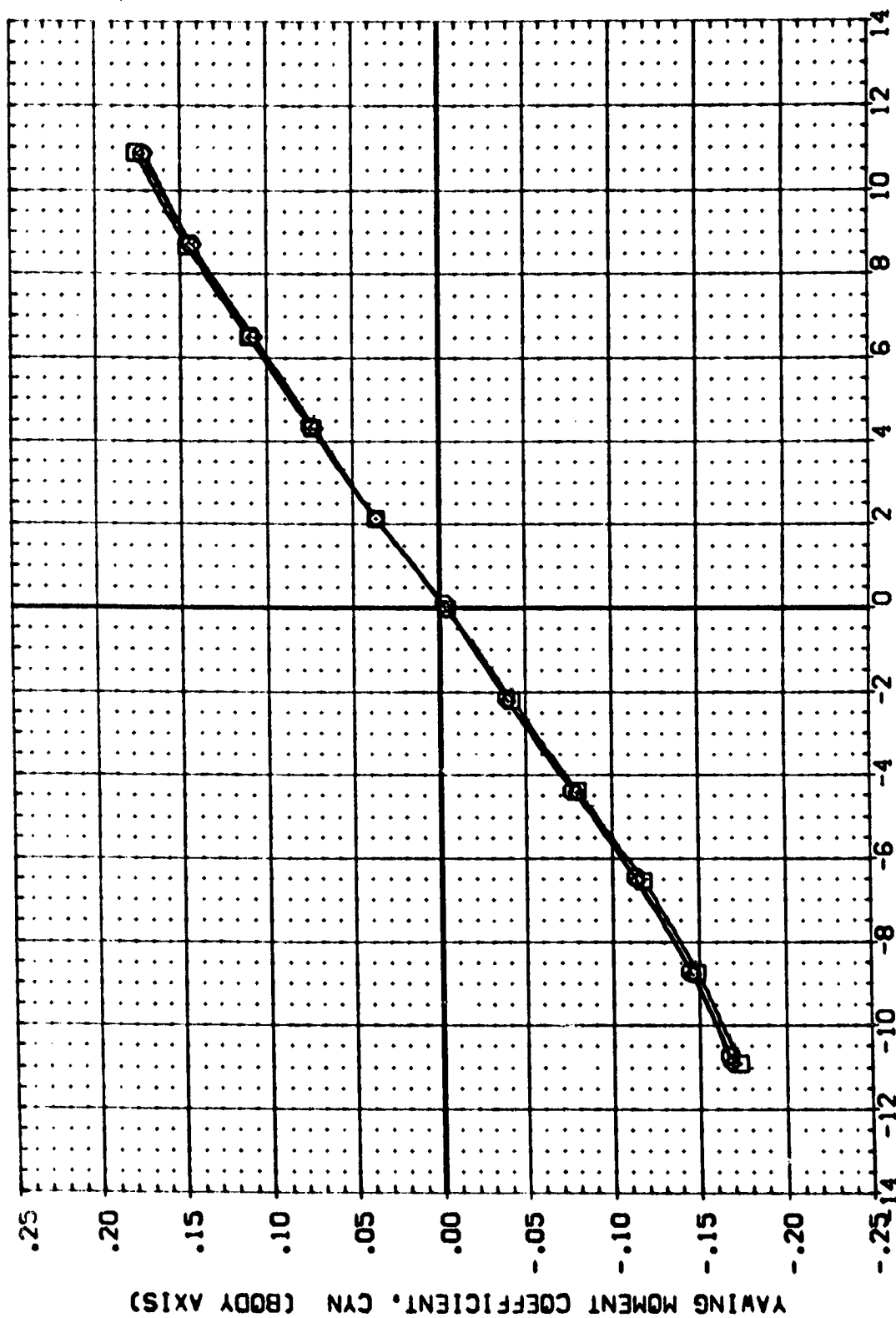
EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

(E)MACH = 1.20

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ALPHA: .000
 RUDDER: .000

REFERENCE INFORMATION
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 LREF 1290.0000 INCHES
 BREF 1290.0000 INCHES
 XMRP 976.0000 INCHES
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 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

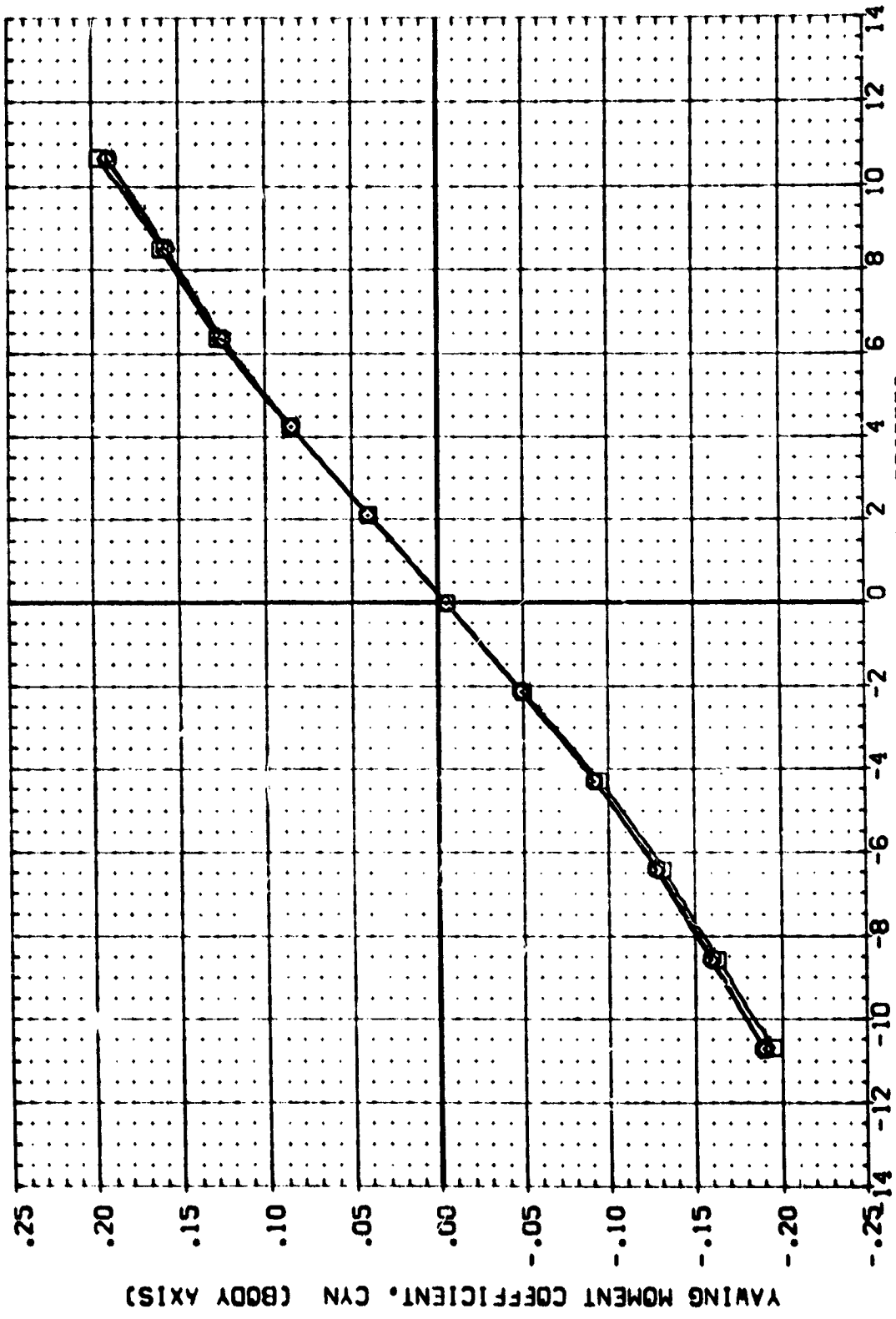
(A)MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 [80B07] Q LAC 8 TPT 667 [A4] T4P6S[P20]
 [80C06] Q LAC 8 TPT 667 [A4] T2P4S[P20]

ALPH RUDDER
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REFERENCE INFORMATION
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 LREF 1290.3000 INCHES
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 SCALE .0150



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

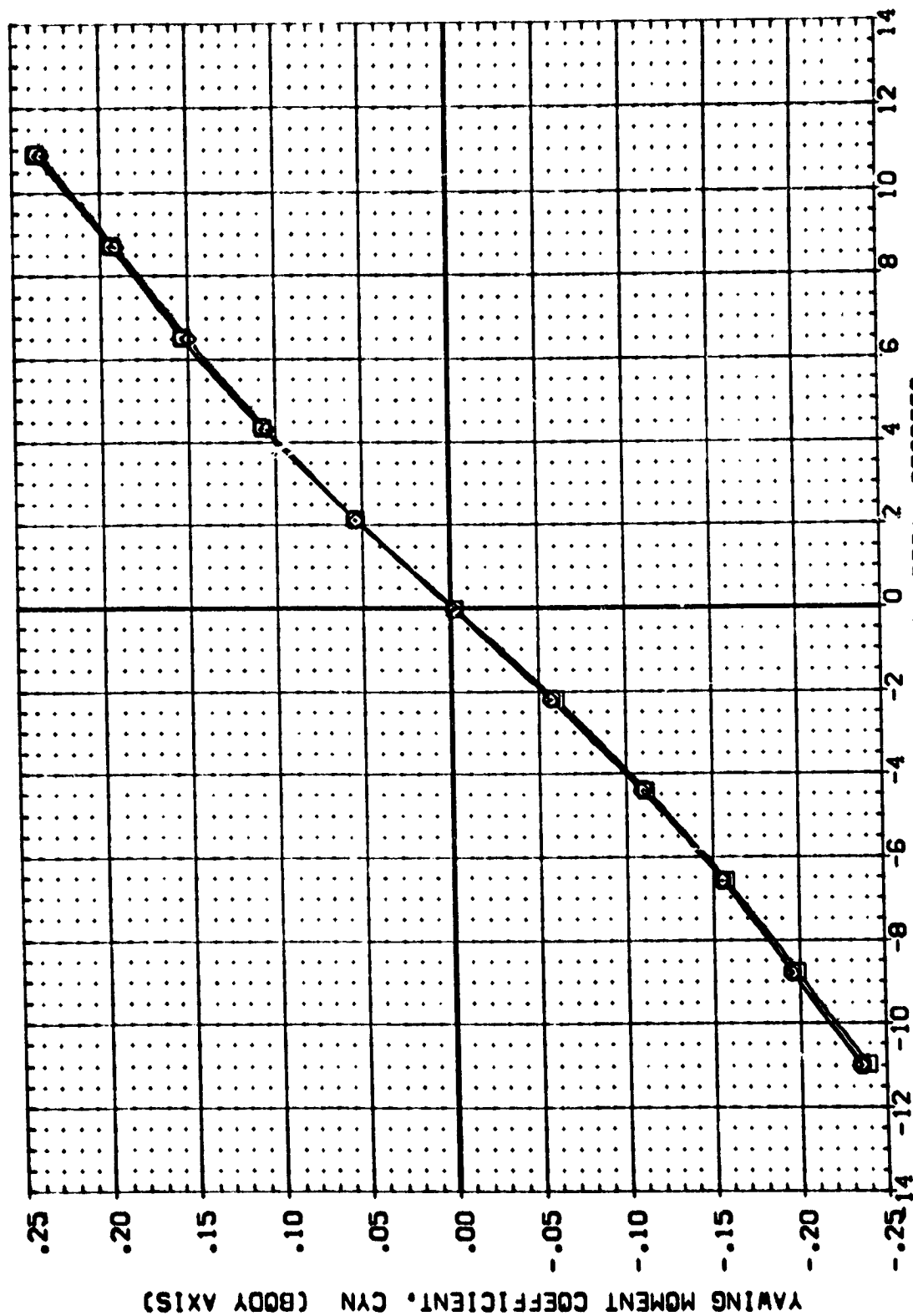
(B)MACH = .79

DATA SET SYMBOL: [B08007] [B08008]

CONFIGURATION DESCRIPTION:
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ALPHA: .00
 RUDDER: .000
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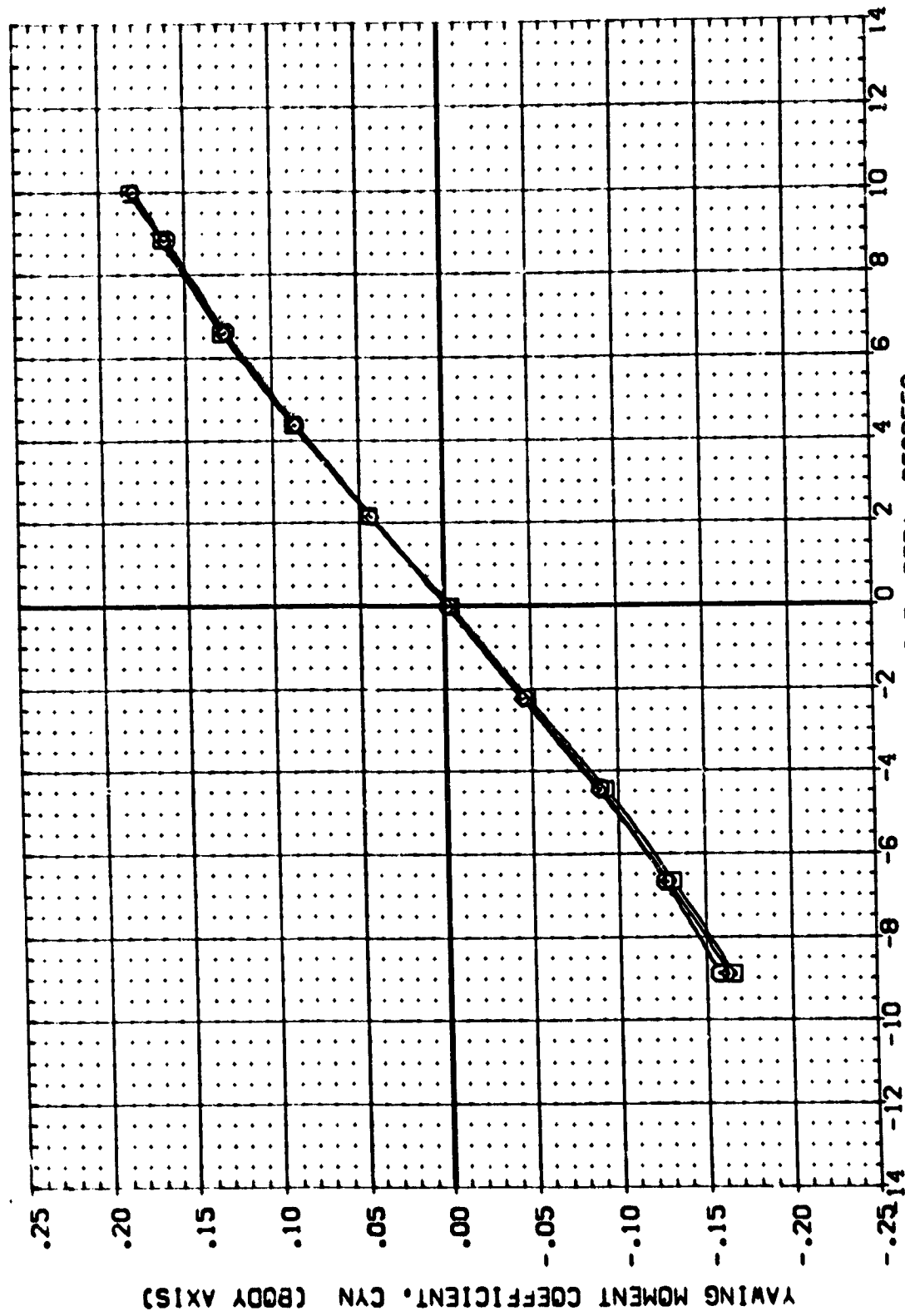
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 BREF: 1290.3000 INCHES
 XMRP: 976.0000 INCHES
 YMRP: 400.0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

(O)MACH = .98

| REFERENCE INFORMATION | |
|-----------------------|------------------|
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| XPRP | 576.0000 11.065 |
| YPRP | .00.00 11.065 |
| ZPRP | 400.00.00 11.065 |
| STALE | .0150 STALE |



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

(E)MACH = 1.20

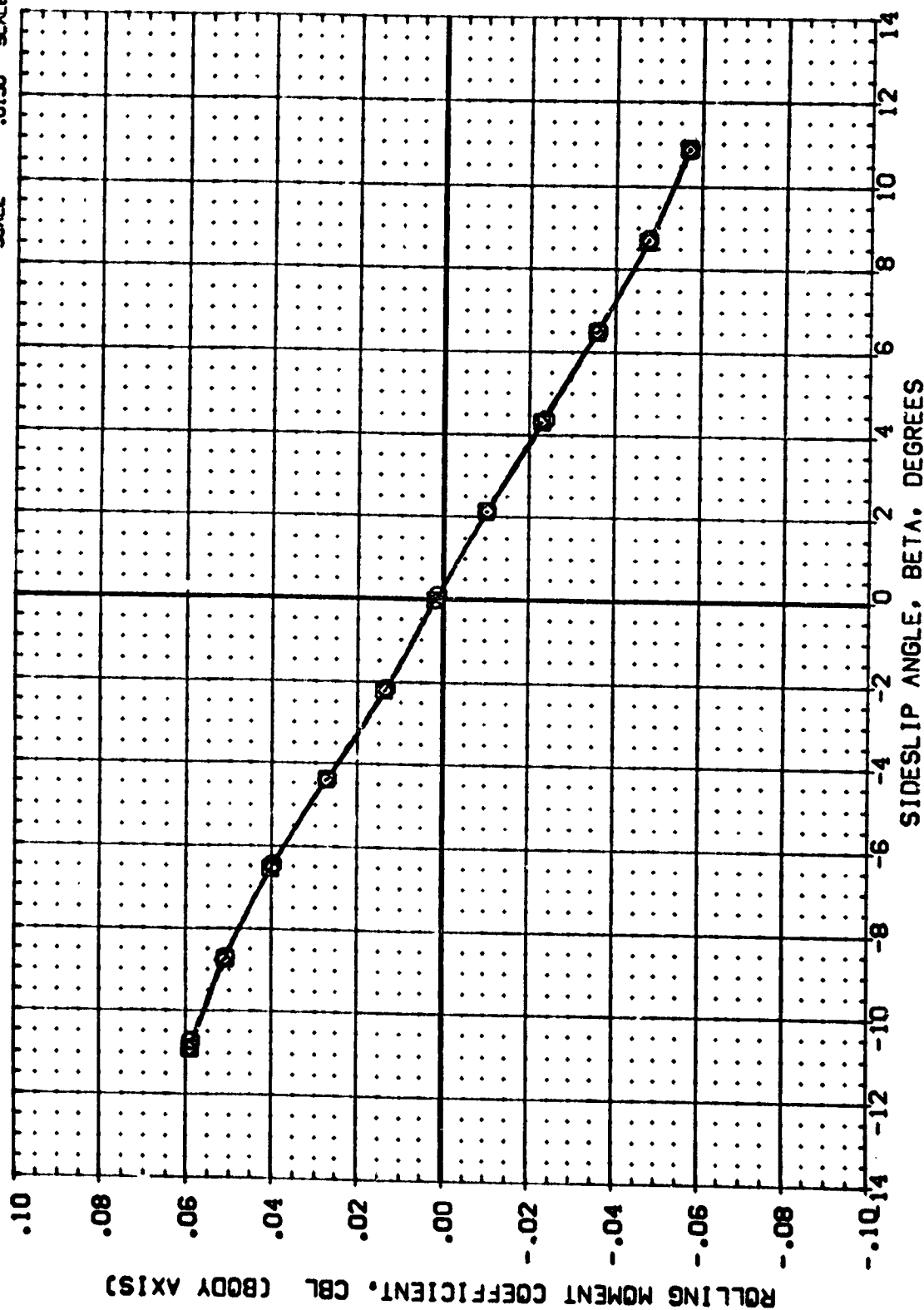
PAGE 78



DATA SET 301 CONFIGURATION DESCRIPTION
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 {808009} LRC 8 T1 657 1A1 1P151P201
 {808009} LRC 8 T1 657 1A1 1P151P201

ALP A RUDER
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 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.0000 INCHES
 BREF 1290.0000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



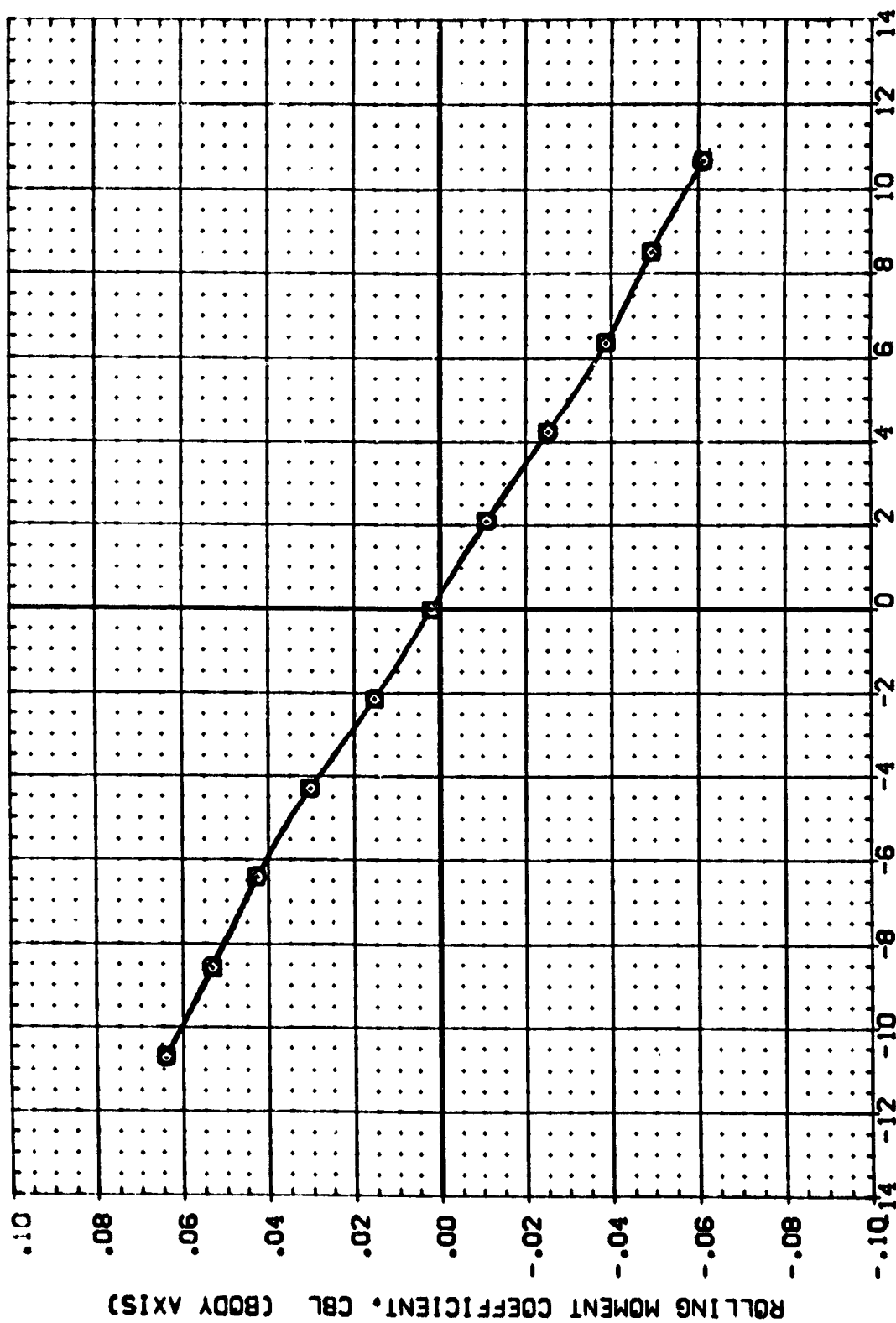
EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

(A)MACH = .60

DATA SET SYM'L CONFIGURATION DESCRIPTION
 [B30003] LRC 8 TPT 657 [A1] T1P1S1P201
 [B30007] LRC 8 TPT 657 [A1] T4P6S1P201
 [B30008] LRC 8 TPT 657 [A1] T2P4S1P201

ALPHA RUDDER
 .000 .000
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2650.0000 50.FT.
 LREF 1250.3000 INCHES
 BREF 1250.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

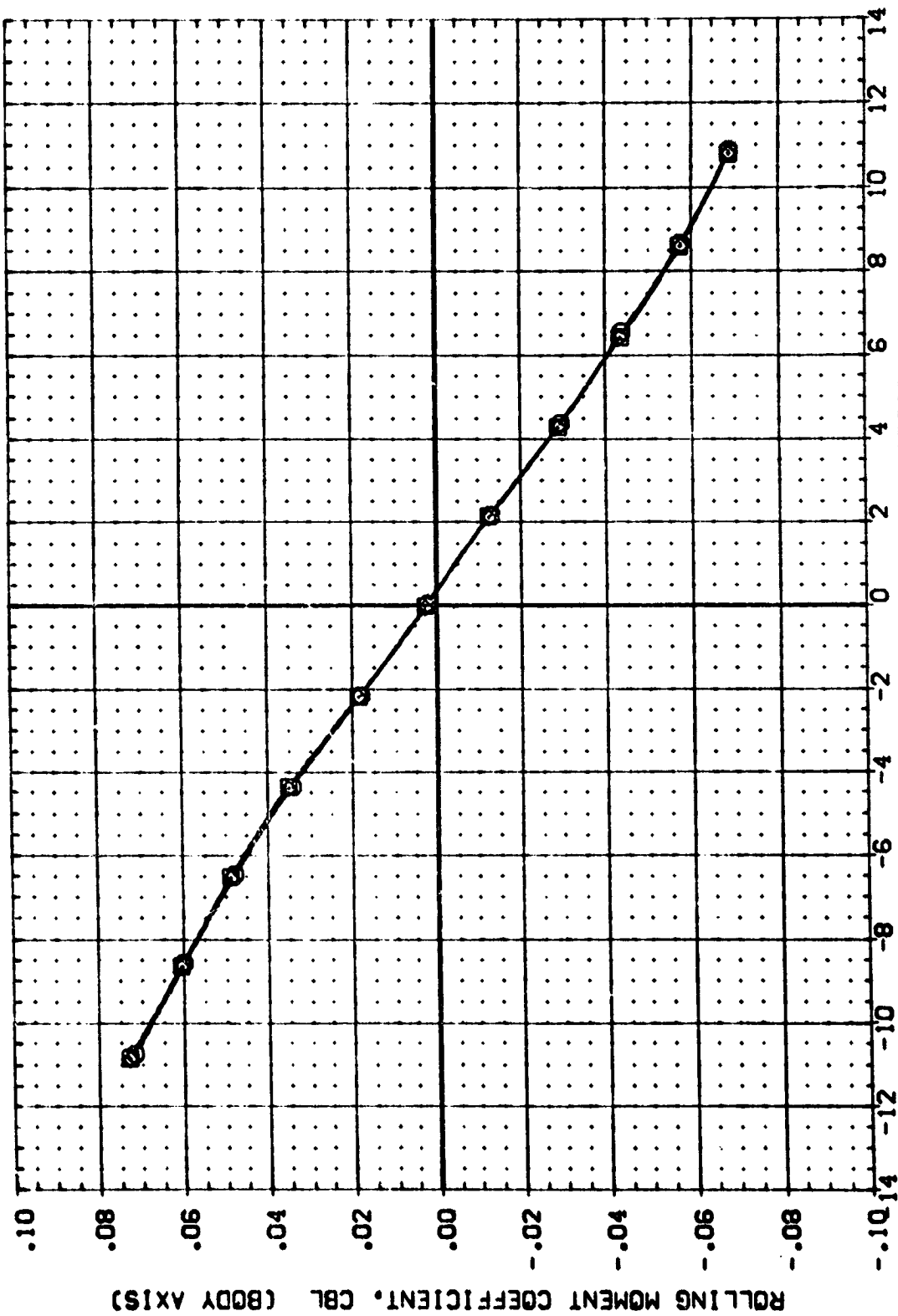
(B)MACH = .79



DAT SET SYMBOL CONFIGURATION DESCRIPTION
 [B05007] Q LRC 8 TPT 657 [A4] 11PIS[P20]
 [B05007] Q LRC 8 TPT 657 [A4] 14PS[P20]
 [B05008] Q LRC 8 TPT 657 [A4] 12PIS[P20]

ALPHA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 IN.-ES
 BREF 1290.3000 IN.-ES
 XMRP 976.0000 IN.-ES
 YMRP 400.0000 IN.-ES
 ZMRP 400.0000 IN.-ES
 SCALE .0150



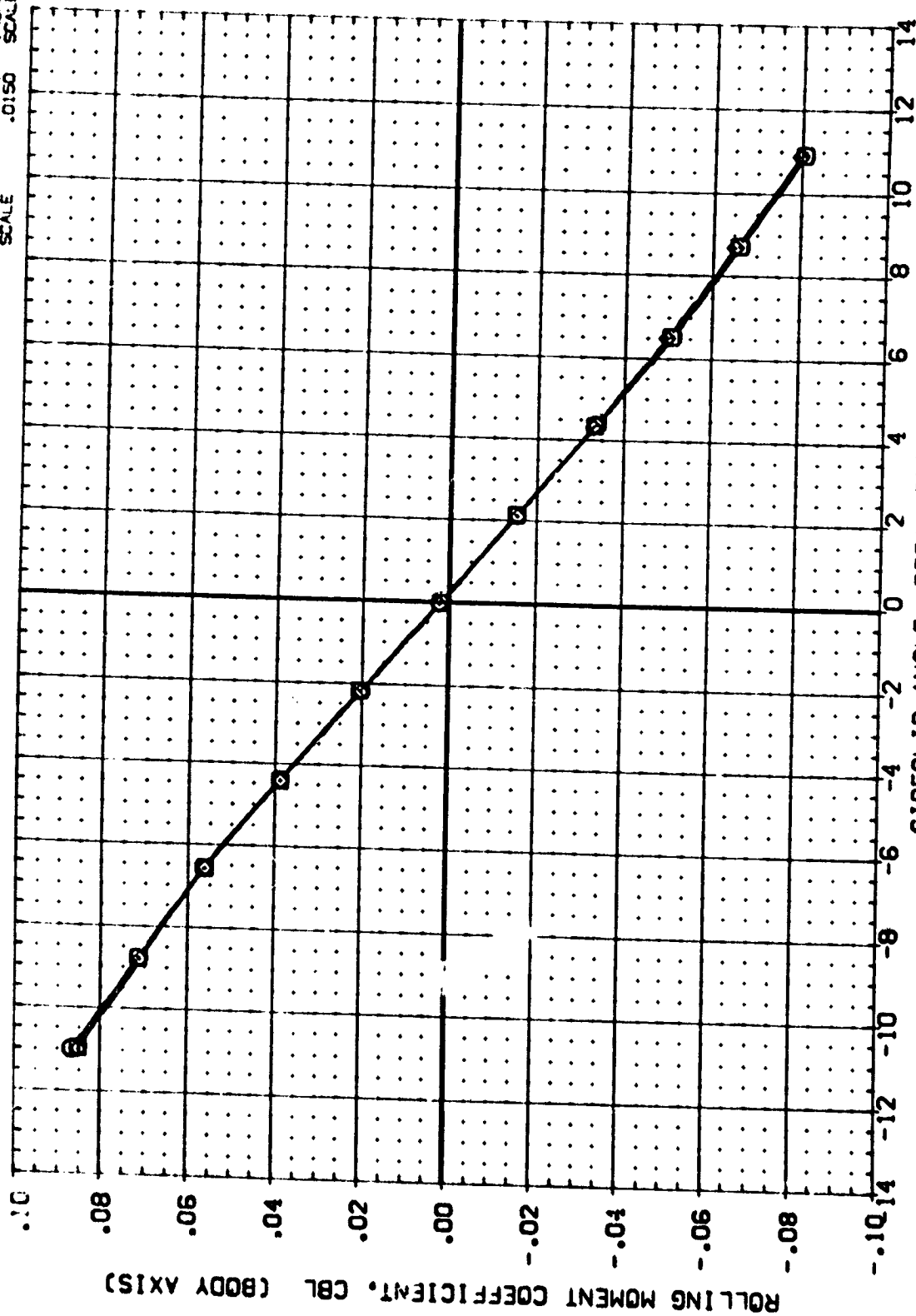
EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

(C)MACH = .89

DATA SET 8-1031 (TANK NOSE SHAPE) DESCRIPTION
 [50807] 0 [50810] 0 [50813] 0 [50816] 0 [50819] 0
 [50822] 0 [50825] 0 [50828] 0 [50831] 0 [50834] 0
 [50837] 0 [50840] 0 [50843] 0 [50846] 0 [50849] 0

ALPHA RUDDER
 .000 .000
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

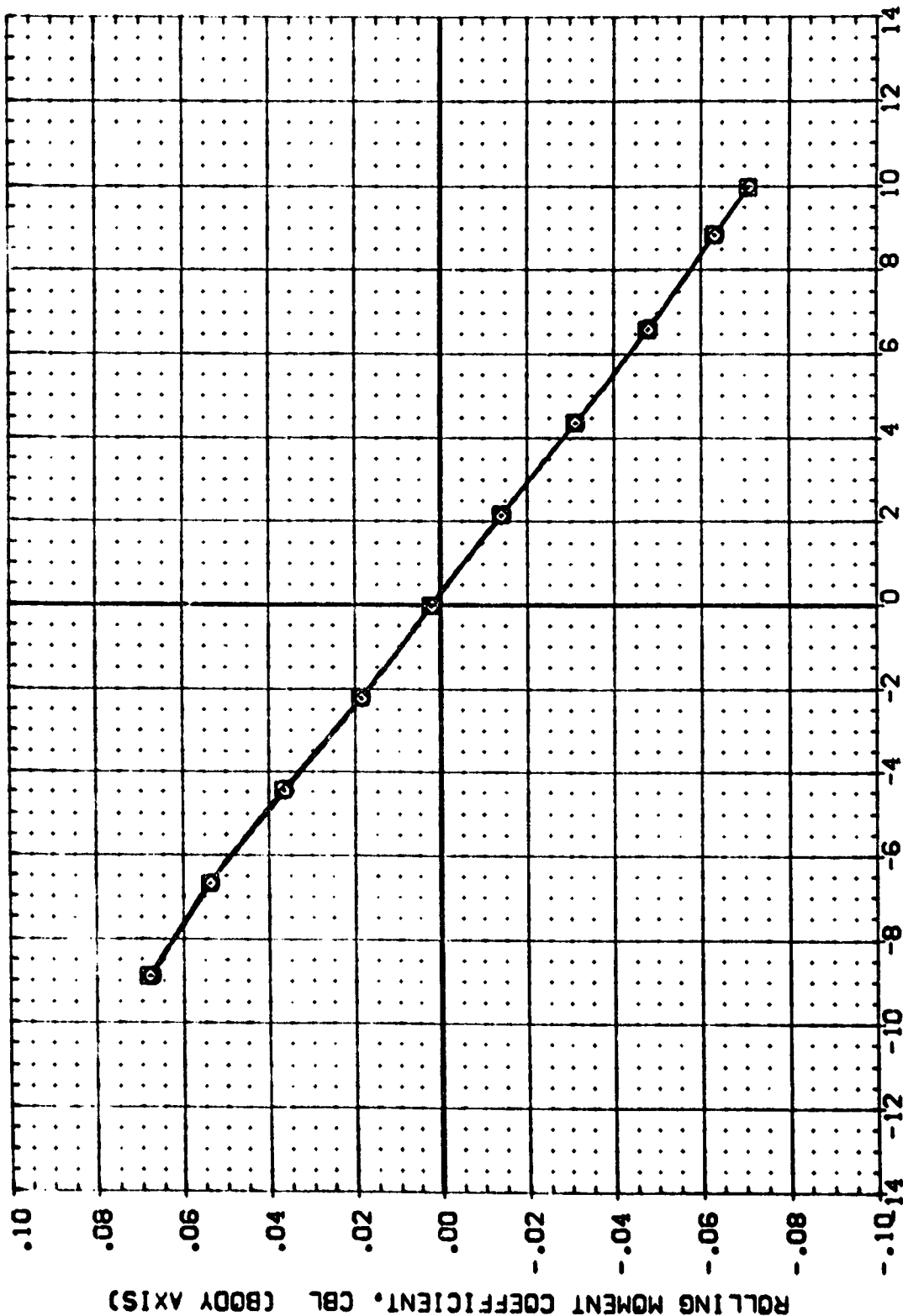
(O)MACH = .98



Q - SET SYMBOL. CONFIGURATION DESCRIPTION
 [B08003] LRC 8 TPT 657 [A1] 11P1S1P201
 [E-3007] LRC 8 TPT 657 [A1] 14P6S1P201
 [J3008] LRC 8 TPT 657 [A1] 12P4S1P201

ALT. A. R. JODER
 .000
 .000
 .000

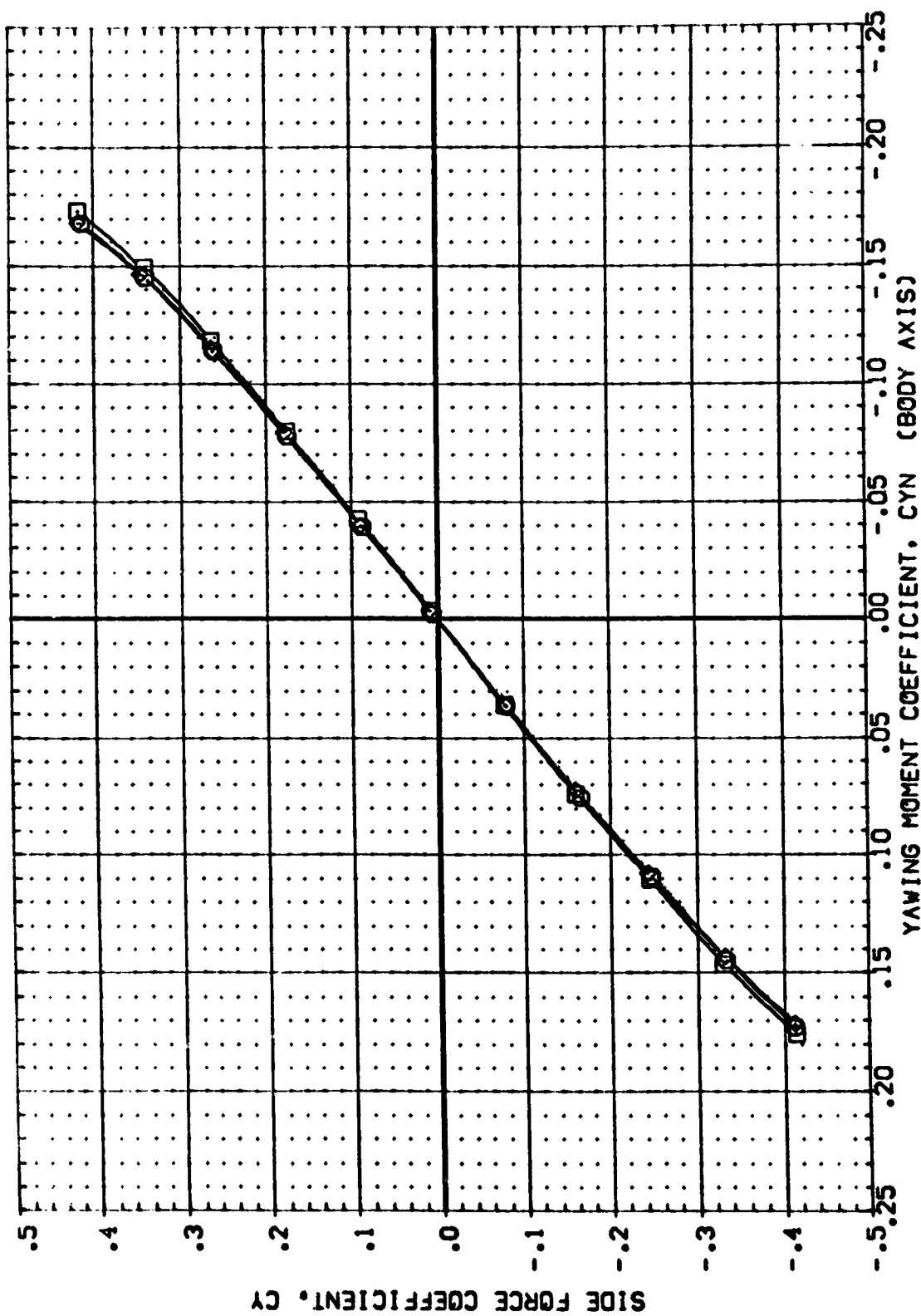
REFERENCE INFORMATION
 SRE 2690.0000 50. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XRRP 976.0000 INCHES
 YRRP 400.0000 INCHES
 ZRRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

(E)MACH = 1.20

| REFERENCE INFORMATION | | SG.FT. |
|-----------------------|-----------|--------|
| SREF | 2500.0000 | INCHES |
| LREF | 1250.3000 | INCHES |
| BREF | 1250.3000 | INCHES |
| XMPD | 976.0000 | INCHES |
| YMPD | .0000 | INCHES |
| ZMPD | 400.0000 | INCHES |
| SCALE | .0150 | SCALE |



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

$$C_A MACH = .60$$

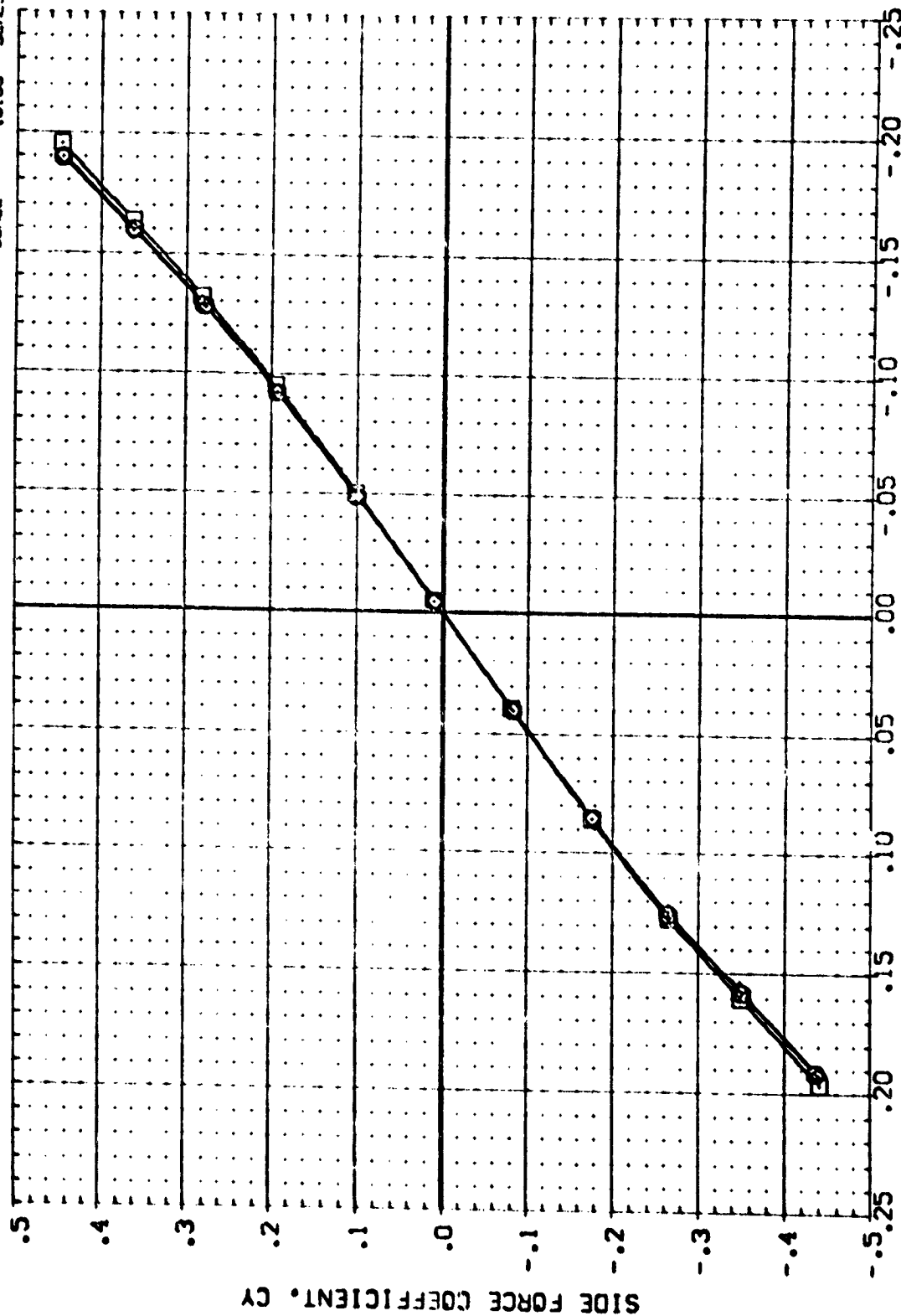
PAGE 84



DATA SET SYMBOL: [86-203] [506-007] [506-008]
 CONFIGURATION DESCRIPTION:
 RC 8 TPT 667 [A4] T1P1S[P20]
 PC 8 TPT 667 [A4] T4P5[P20]
 PC 8 TPT 667 [A4] T2-4S[P20]

AL 10 FLOOR
 000
 000
 000

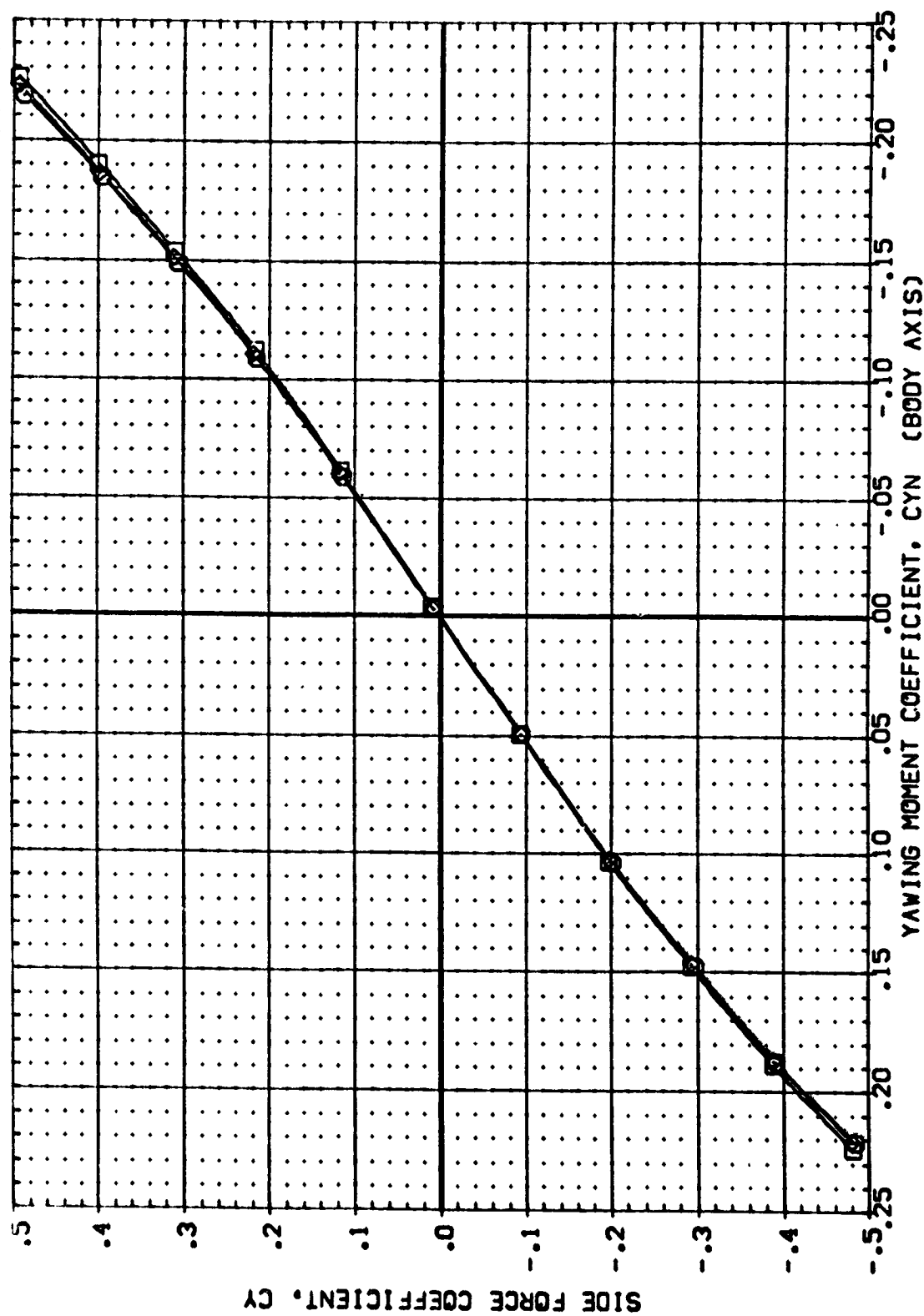
REFERENCE INFORMATION
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 LREF 1250.3000 110-ES
 BREF 1250.3000 110-ES
 YREF 976.0000 110-ES
 ZREF 400.0000 110-ES
 SCALE 0.0150 110-ES



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS
 YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

(B)MACH = .79

| REFERENCE INFORMATION | |
|-----------------------|------------------|
| SREF | 2690.0000 SQ.FT. |
| LREF | 1290.3000 INCHES |
| BREF | 1290.3000 INCHES |
| XMRP | 576.0000 INCHES |
| YMRP | 0.0000 INCHES |
| ZMRP | 400.0000 INCHES |
| | .0150 SCALE |



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

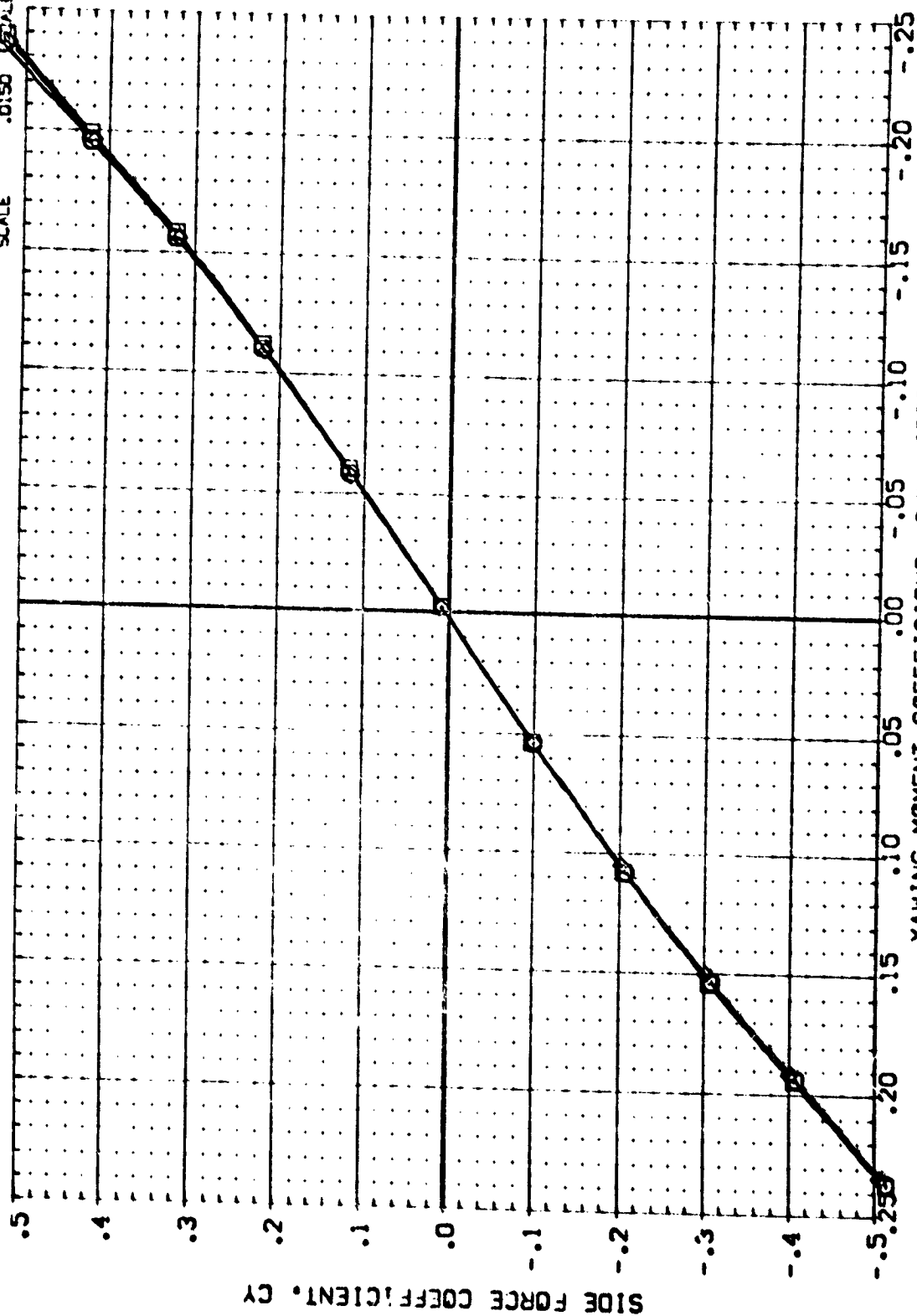
$$[C]_{MACH} = .89$$

PAGE 86



| | |
|-------|-------|
| ALPHA | RIDER |
| .000 | .000 |
| .000 | .000 |
| .000 | .000 |

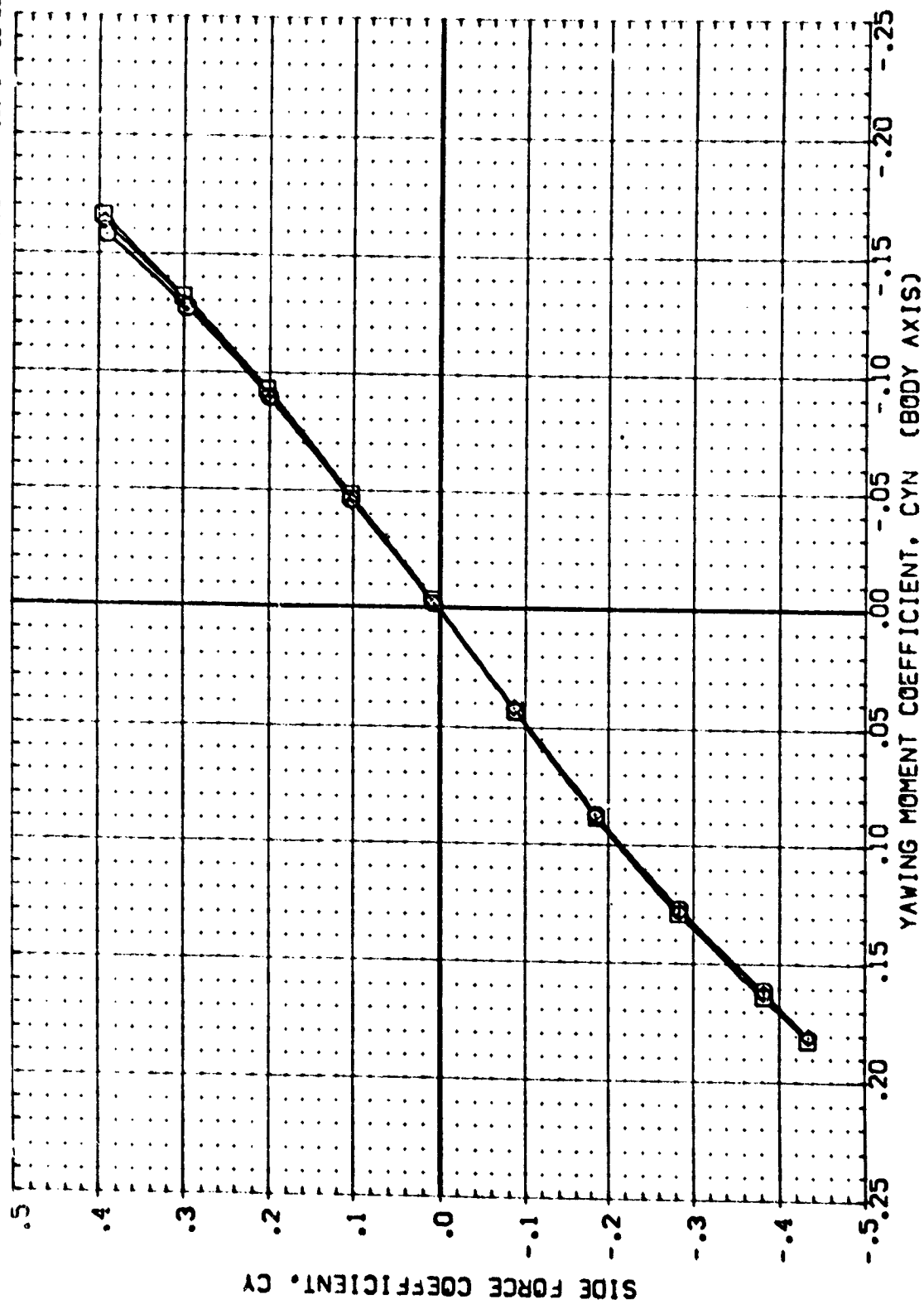
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|-----------------------|-----------|--------|
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| LREF | 1290.3000 | 10-ES |
| BREF | 1290.3000 | 10-ES |
| XMAP | 976.0000 | 10-ES |
| YMAP | 0.0000 | 10-ES |
| ZMAP | 400.0000 | 10-ES |
| SCALE | 0.150 | SCALE |



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

$$COJMAC_H = .98$$

| REFERENCE INFORMATION | |
|-----------------------|--------|
| SIZE | 50 FT. |
| TYPE | 1-C-ES |
| DATE | 1-C-ES |
| TIME | 1-C-ES |
| SCALE | 1-C-ES |
| SCALE | SCALE |



EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

$$[E]_{MACH} = 1.20$$

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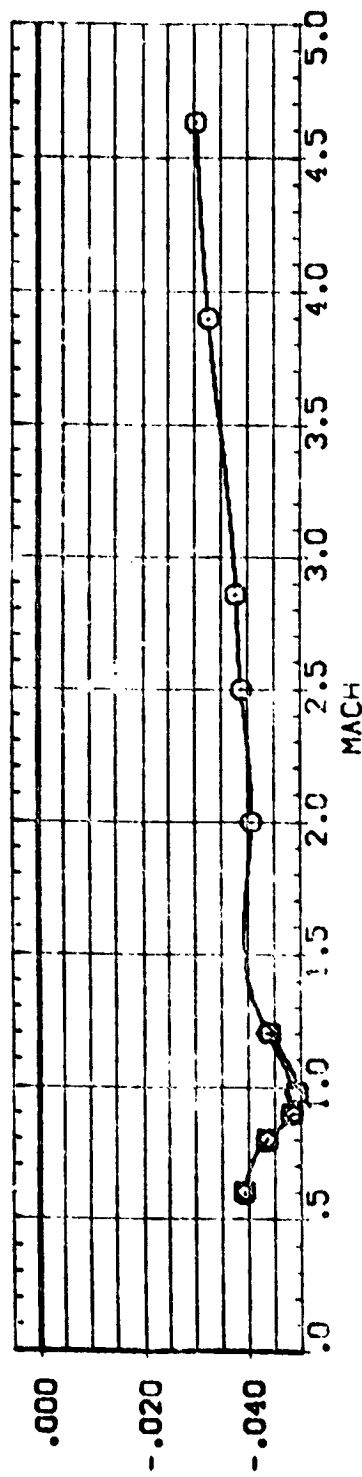
SET TYPE: []
[]
[]
[]

CONFIGURATION DESCRIPTION
ARC TESTS 1A1 AND 1A2A/B
RC 8 TPT 657 [A1] 14P6S1P201
RC 8 TPT 657 [A1] 12P4S1P201

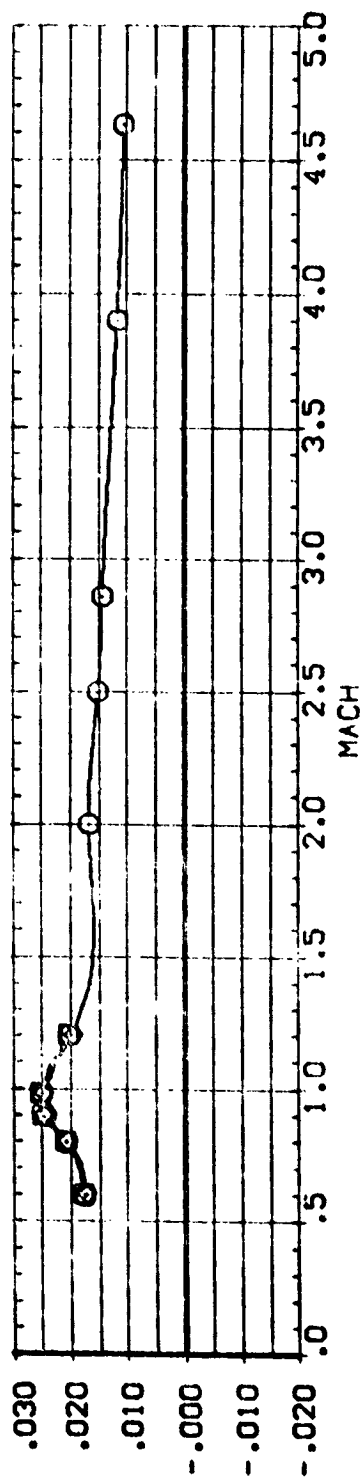
ALPHA: .000
.000
.000
RUDER: .070
.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
YMRP 976.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150

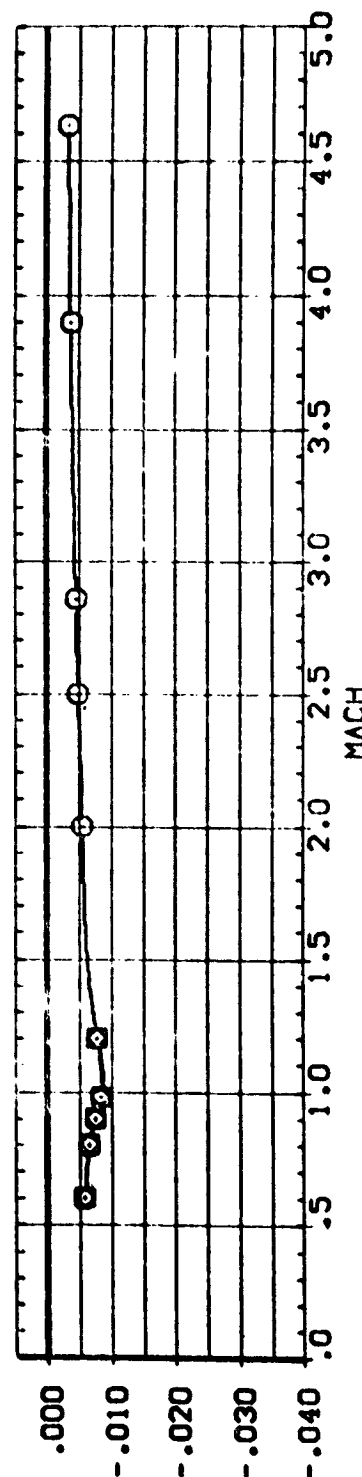
DCY/DB



UCYNDB



OCBLDB

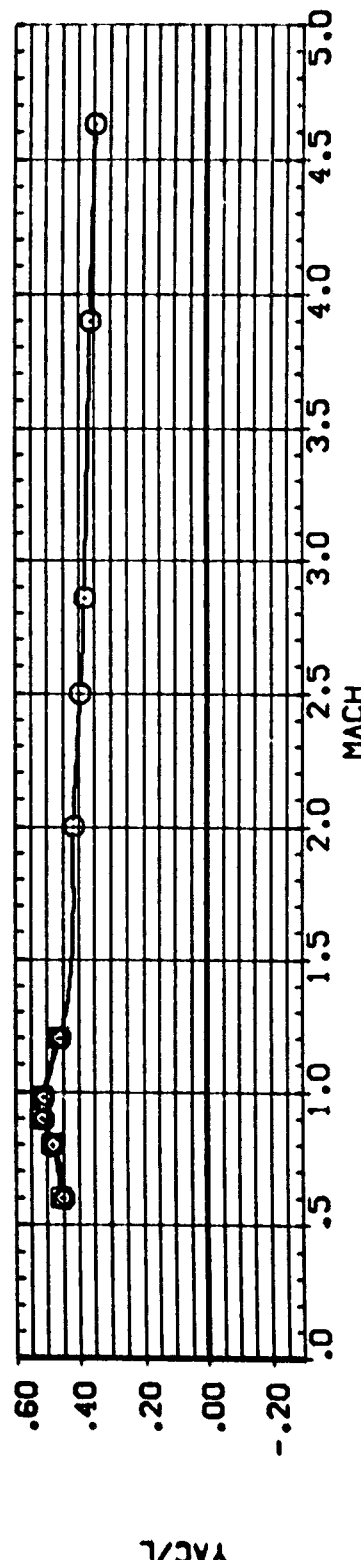
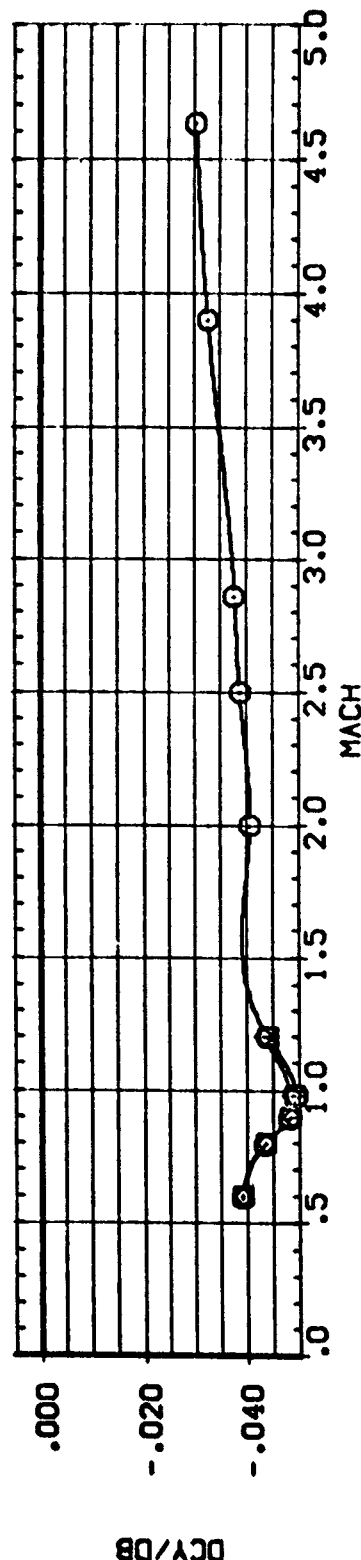
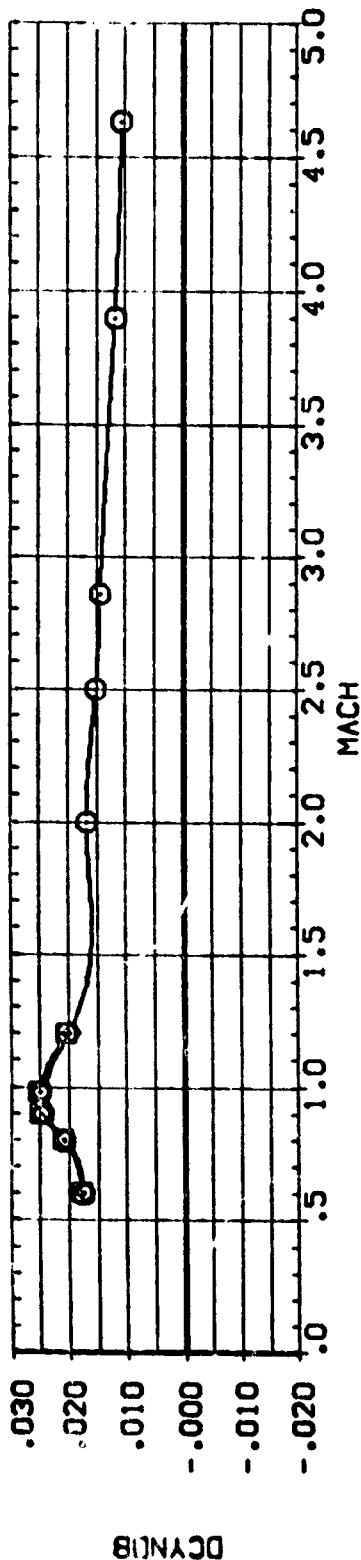


EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS

DATA SET SYMBOL: 11P1SIP201
 11P1SIP201
 11P1SIP201
 11P1SIP201
 11P1SIP201

ALPHA: .000
 RUDDER: .000
 .000
 .000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 XMRP: 976.0000 INCHES
 YMRP: 400.0000 INCHES
 SCALE: .0150

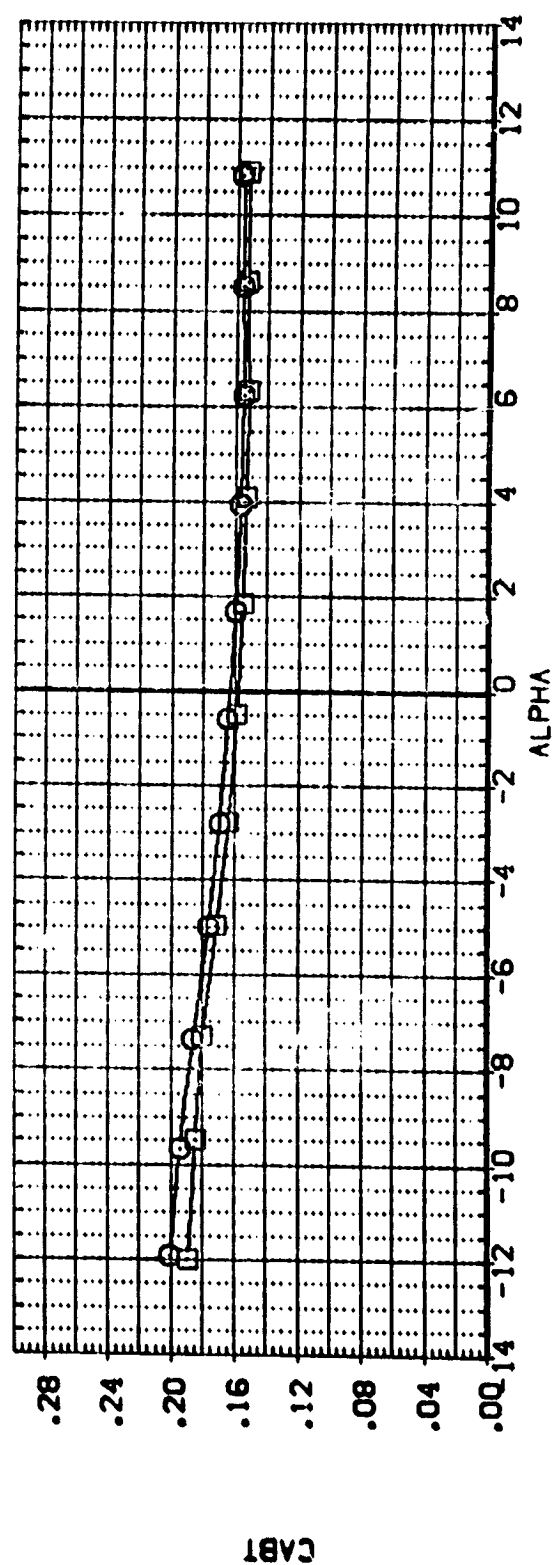
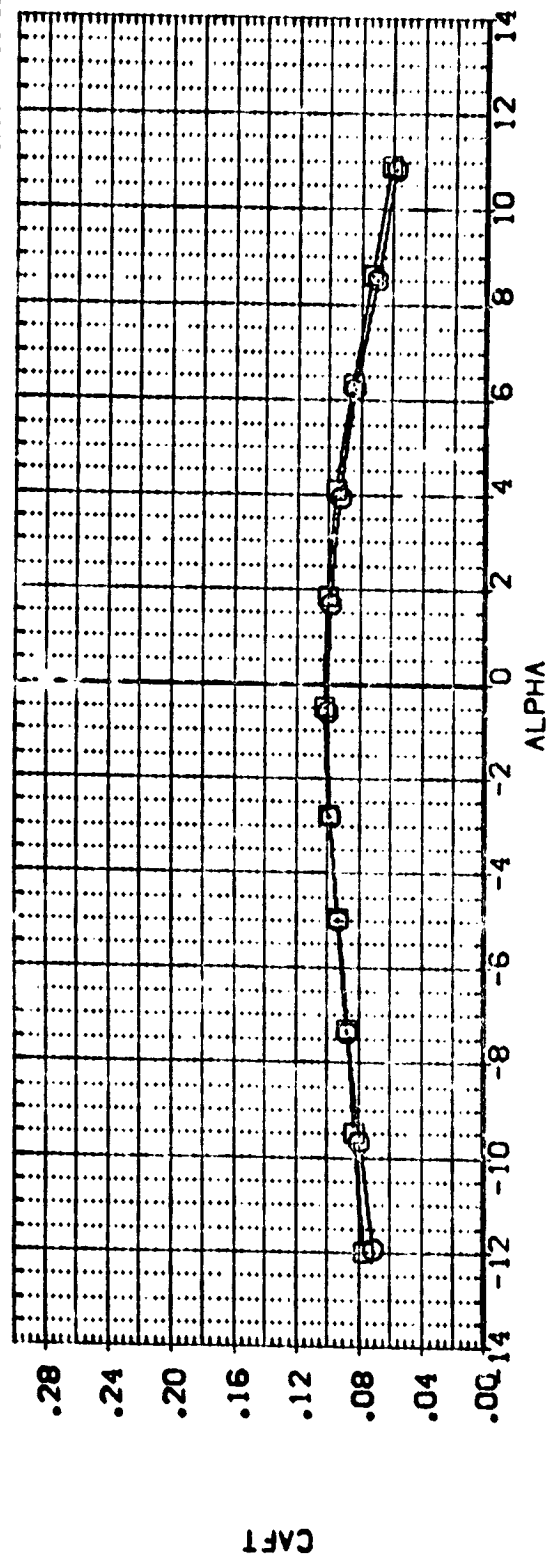


EFFECT OF TANK NOSE SHAPE ON LAT.-DIRECTIONAL CHARACTERISTICS



| | | | |
|------|-------|-------|------|
| BE-A | 00.00 | FLDGR | 0000 |
| | 00.00 | | 0000 |

| REFERENCE INFORMATION | |
|-----------------------|-------------------|
| SREF | 2690.0000 50. FT. |
| LREF | 1290.3000 INCHES |
| BREF | 1290.3000 INCHES |
| XTRP | 976.0000 INCHES |
| YTRP | 0.0000 INCHES |
| ZTRP | 400.0000 INCHES |
| SCALE | .0150 SCALE |



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

$$\{A\}MACH = .60$$

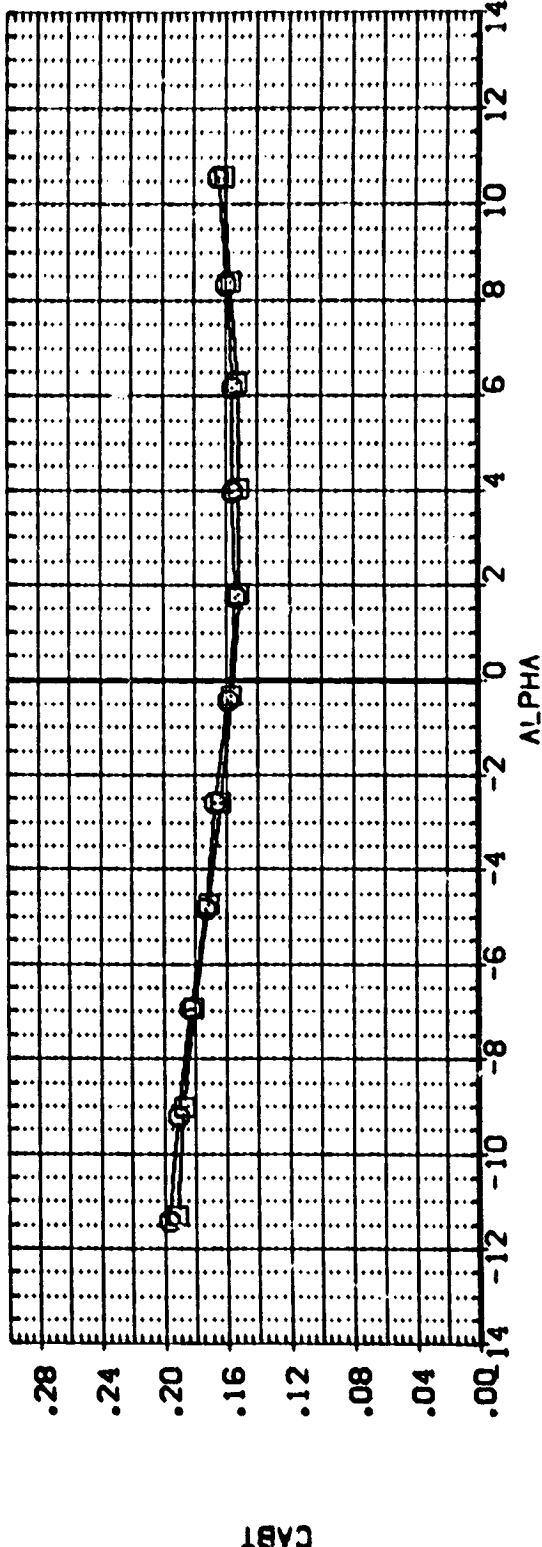
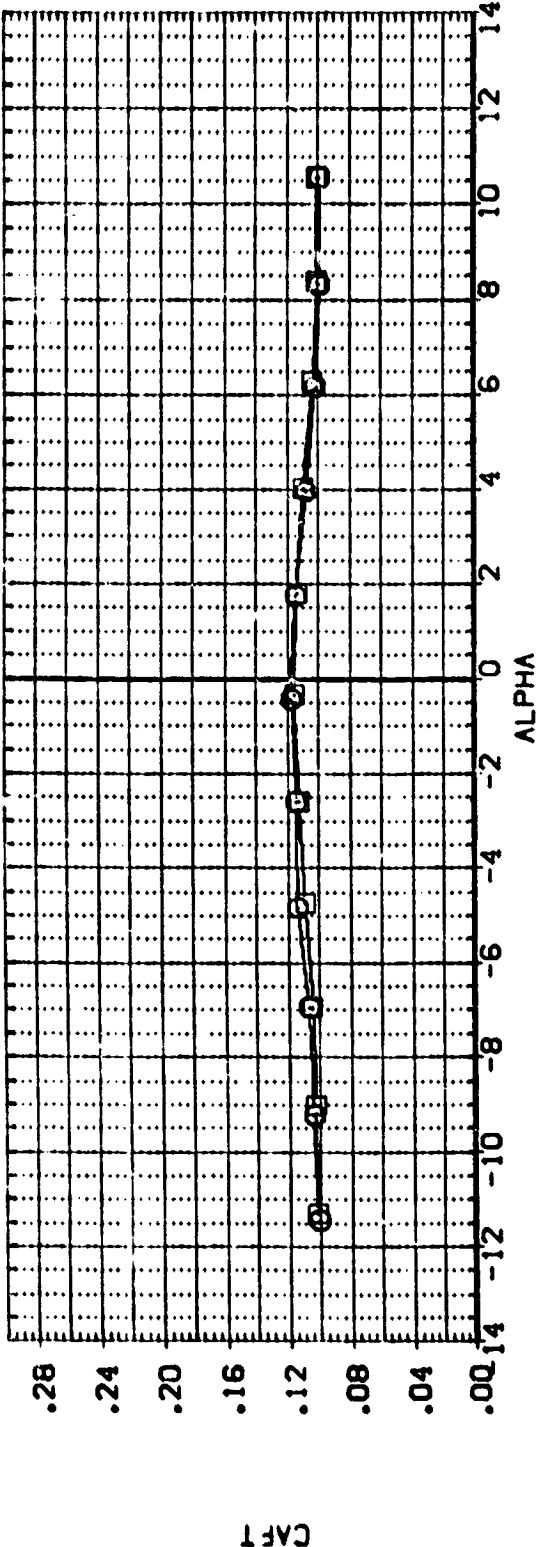
PAGE 01

6)

DATA SET 50-200 00400 11100 DESCRIPTION
 120000 1 120000 1 120000 1 120000 1
 120000 1 120000 1 120000 1 120000 1

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2550.0000 50.00
 LREF 1250.0000 12.50
 XREF 1250.0000 12.50
 YREF 975.0000 9.75
 ZREF 400.0000 4.00
 SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

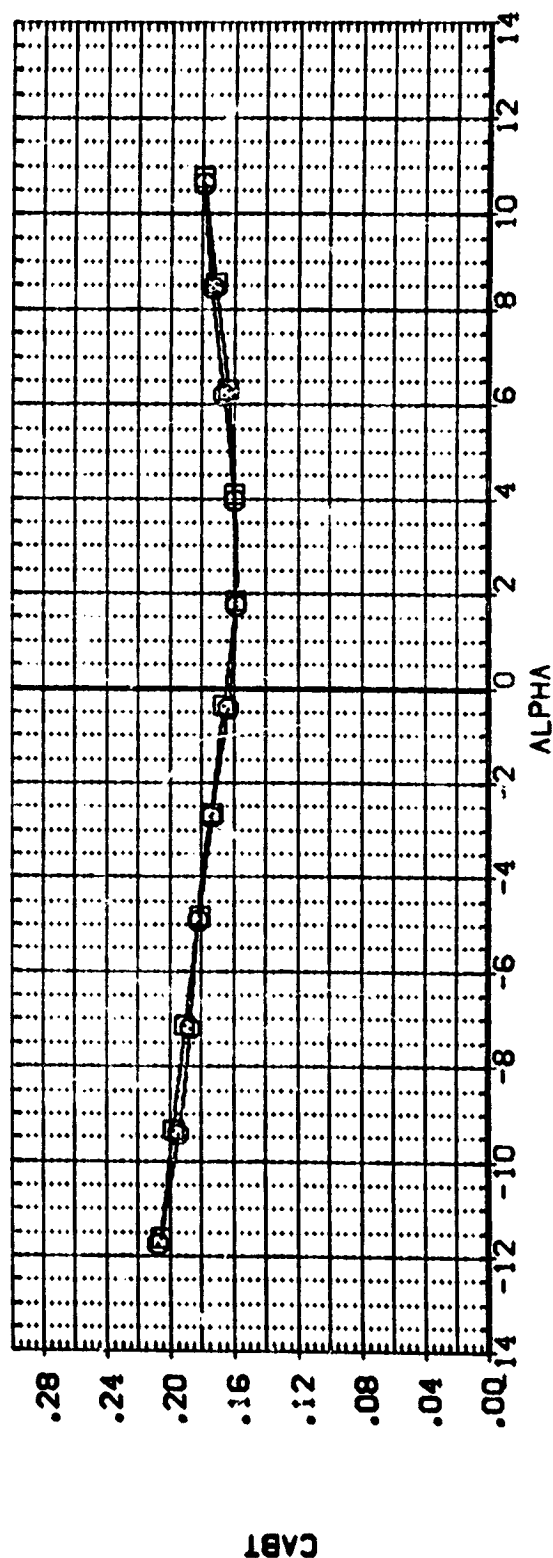
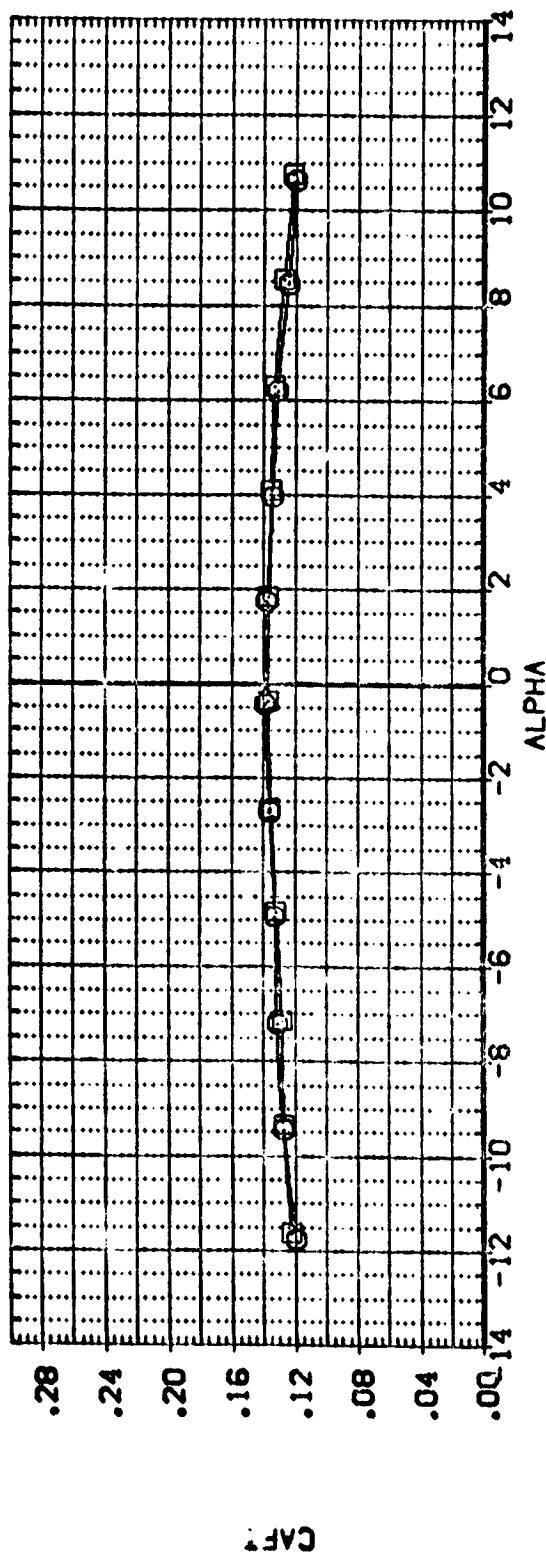
(B)MACH = .80



C-1 SET SYMBOL CONFIGURATION DESCRIPTION
 (808001) L-C 8 TPT 667 1A41 11P1S1P201FR1
 (808004) L-C 8 TPT 667 1A41 11P1S1P201

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 IN-ES
 BREF 1290.3000 IN-ES
 XMRP 976.0000 IN-ES
 YMRP 400.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 SCALE



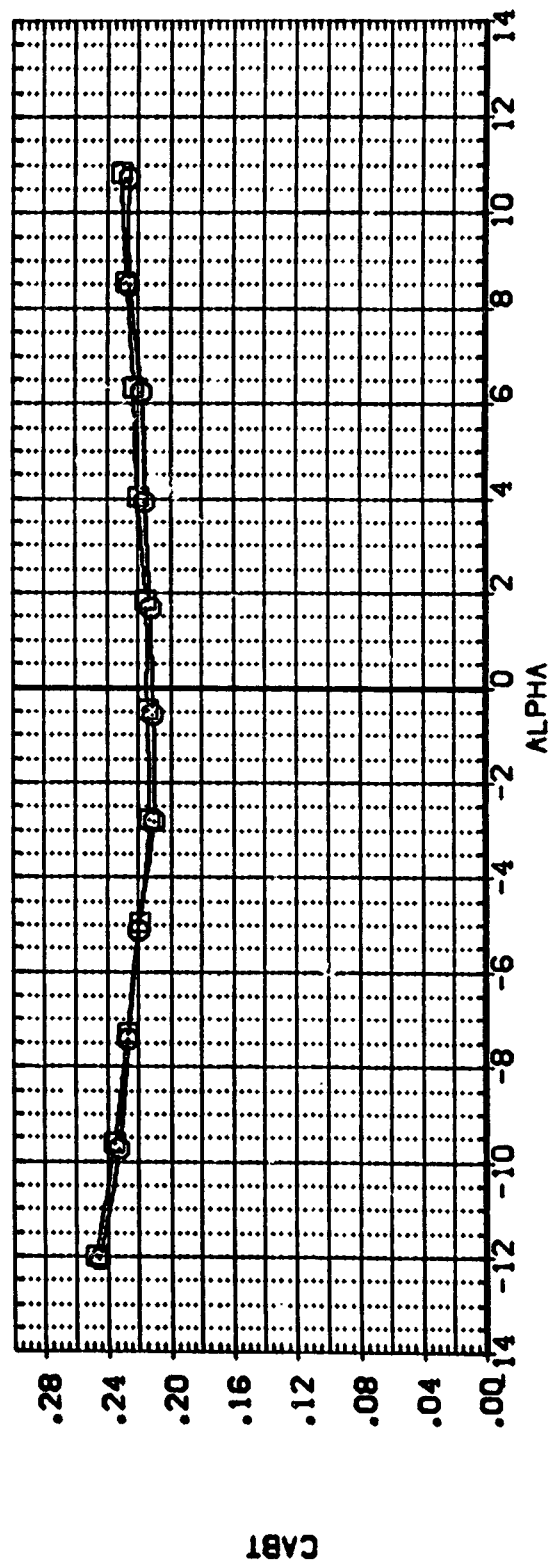
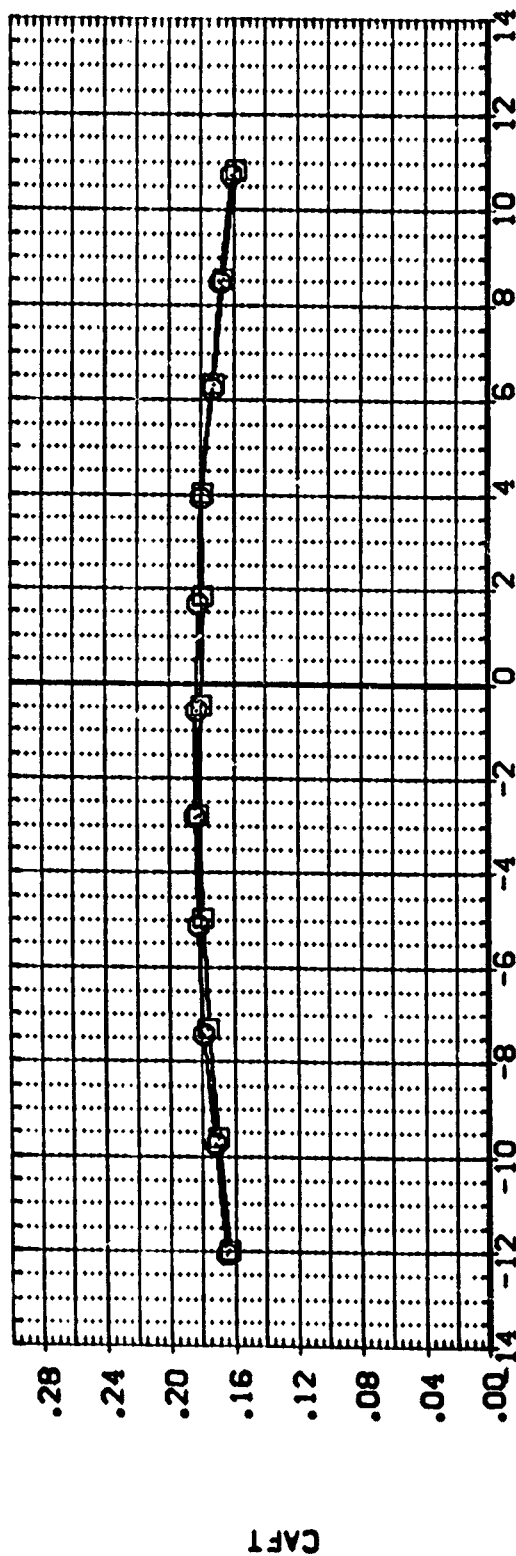
EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(C)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (000001) LRC 8 TPT 567 (A4) T1P1S(P20)FRI
 (000001) LRC 8 TPT 567 (A4) T1P1S(P20)

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(000001) MACH = .98

PAGE

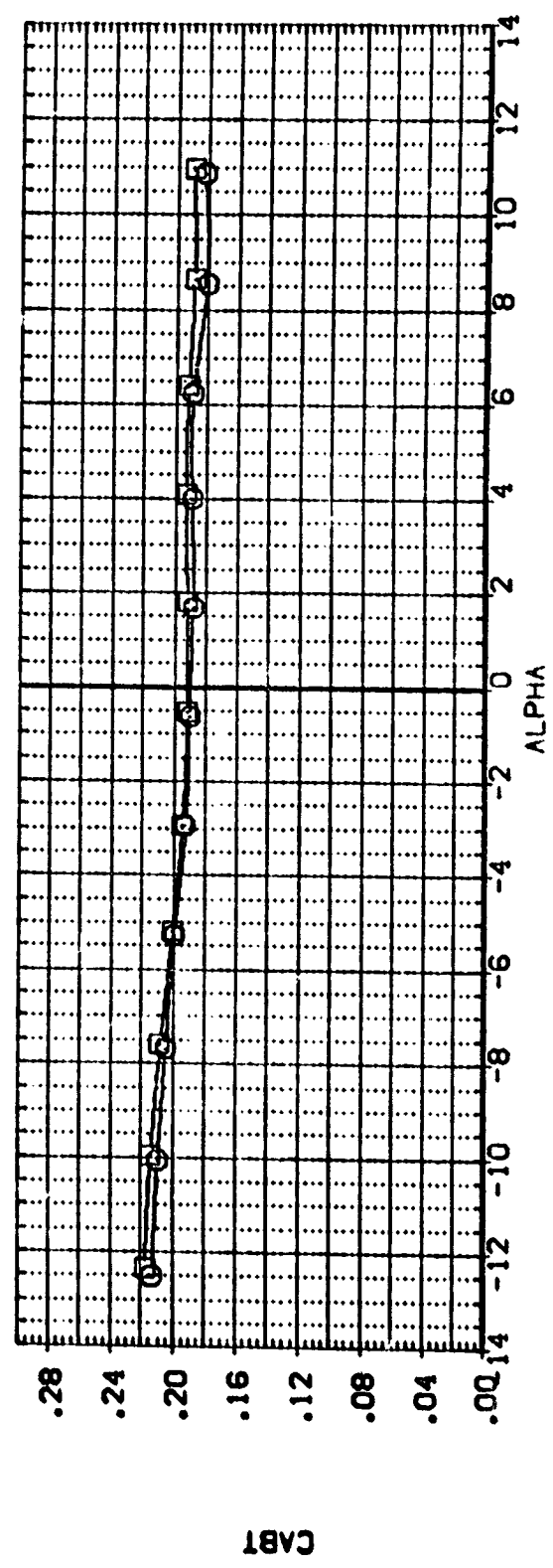
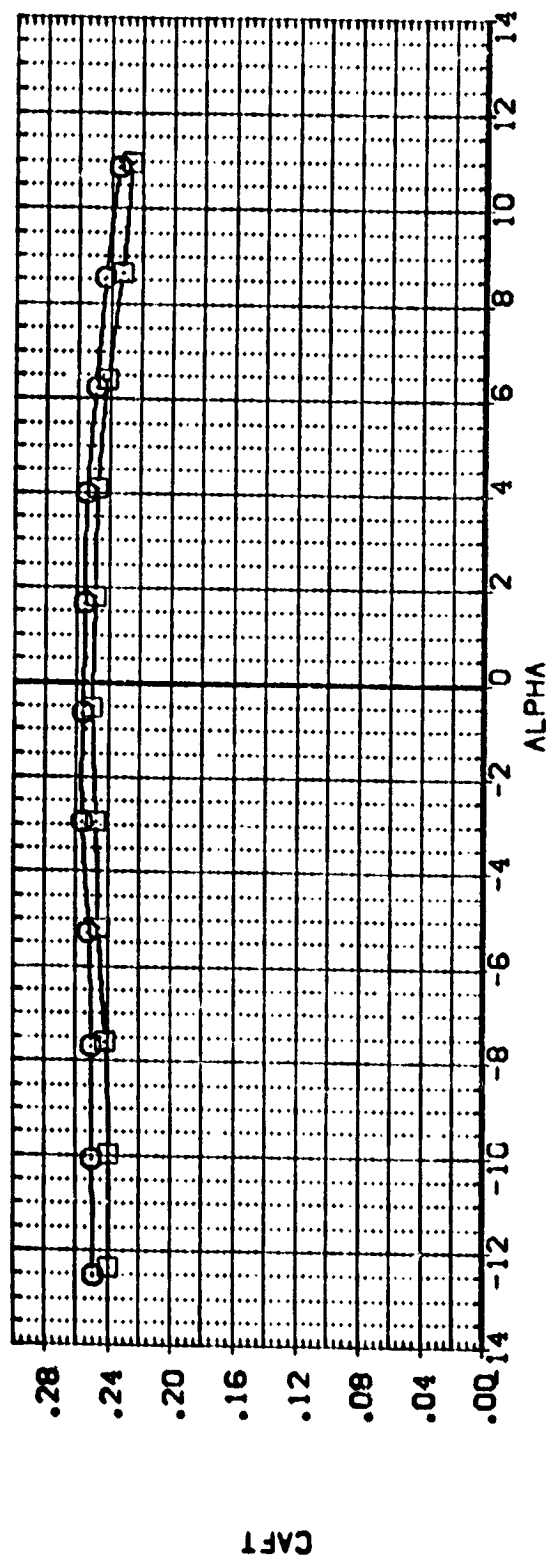
94



DATA SET SYMBOL: [308001] [808004]
 CONFIGURATION DESCRIPTION:
 RC 8 TPT 667 [A4] TIP1P20 [FR]
 RC 8 TPT 667 [A4] TIP1P20

BETA: .000
 RUDDER: .000

REFERENCE INFORMATION:
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 576.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

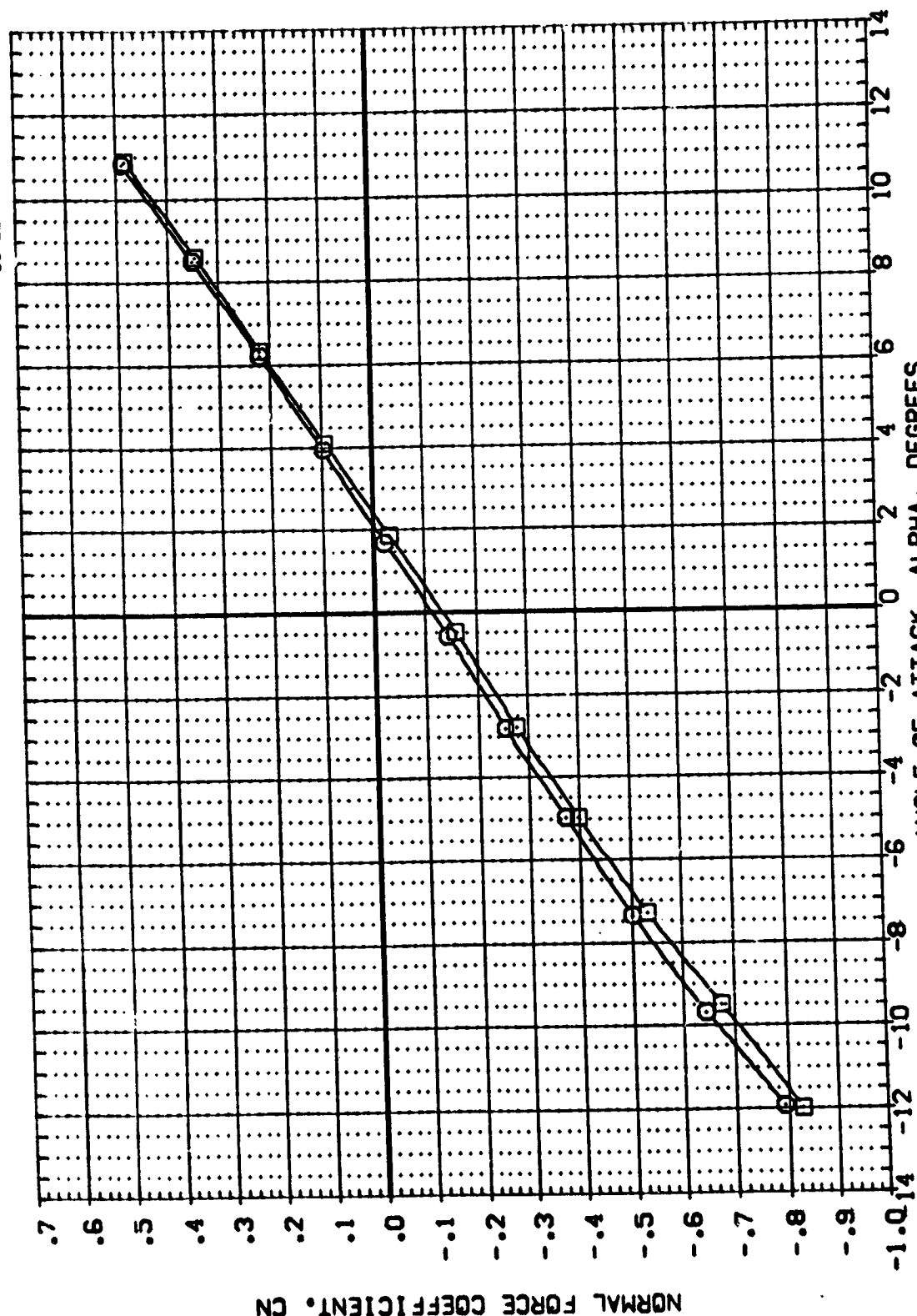
(C)MACH = 1.20



REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 400.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150

BETA RUDDER
.000 .000
.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[808001] LRC 8 TPT 667 [A4] TIP[S]P20[FRI]
[808004] LRC 8 TPT 667 [A4] TIP[S]P20



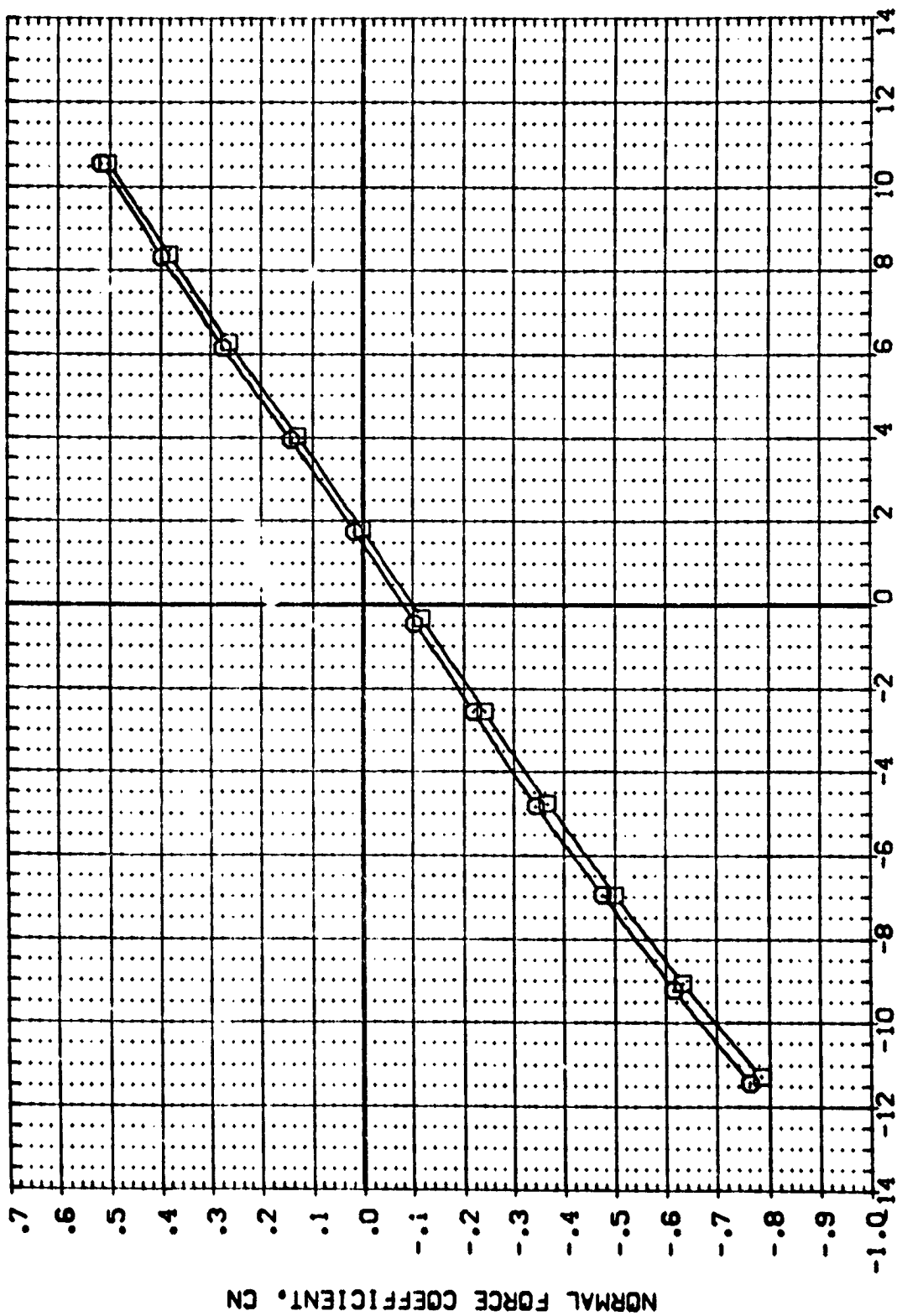
EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS
ANGLE OF ATTACK, ALPHA, DEGREES

(A)MACH = .60

DATA SET : 100L CONFIGURATION DESCRIPTION
 [808001] LRC 8 TPT 657 [A4] TIP[SIP20]FR1
 [808004] LRC 8 TPT 657 [A4] TIP[SIP20]

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE

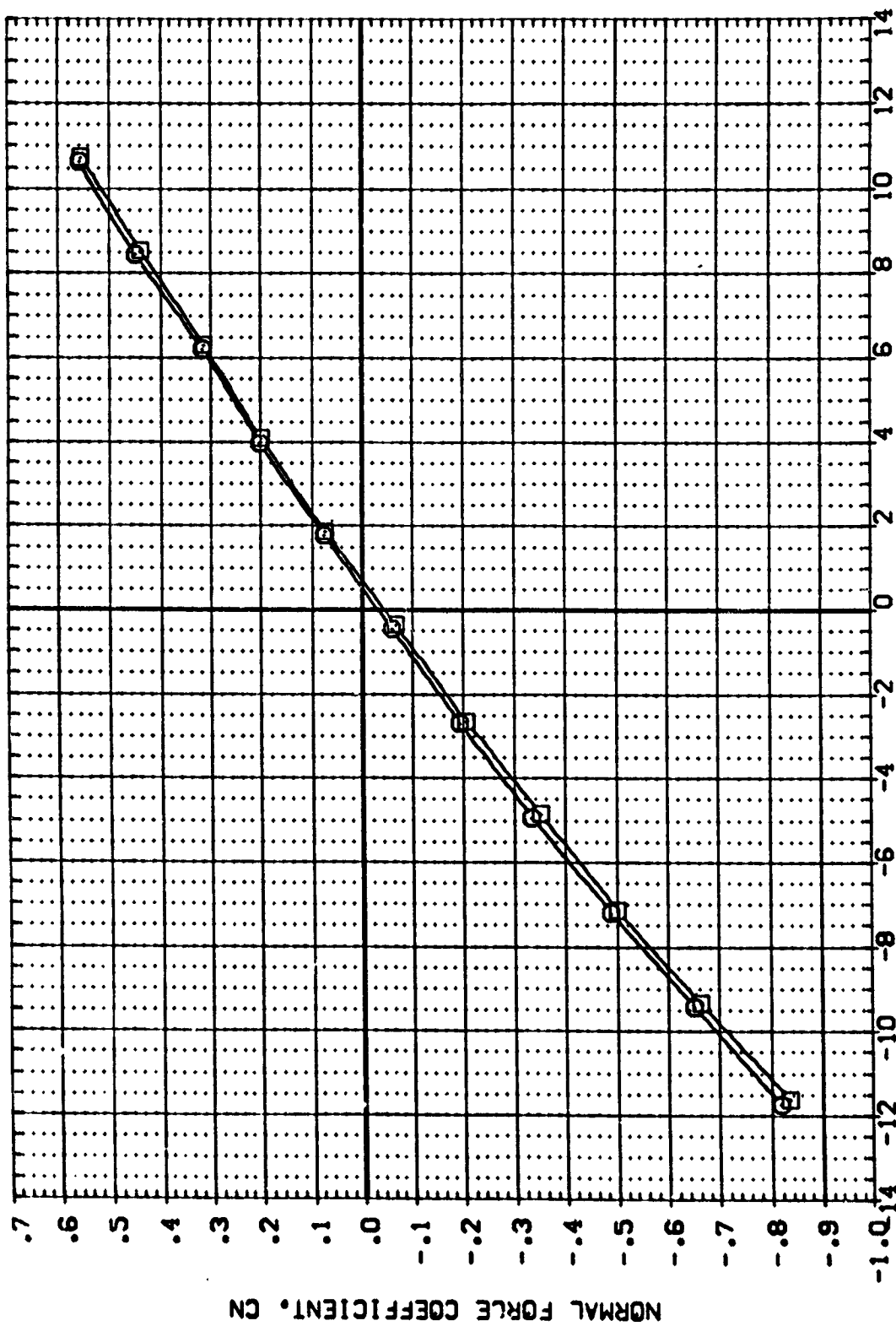


EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS
 (B)MACH = .80

DATA SET SYMBOL: [808001] [808004]
 CONFIGURATION DESCRIPTION:
 LRC 8 TPT 657 [A1] TIPISIP201FR1
 LRC 8 TPT 657 [A1] TIPISIP201

BETA: .000
 RUDDER: .000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 XMRP: 976.0000 INCHES
 YMRP: 400.0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

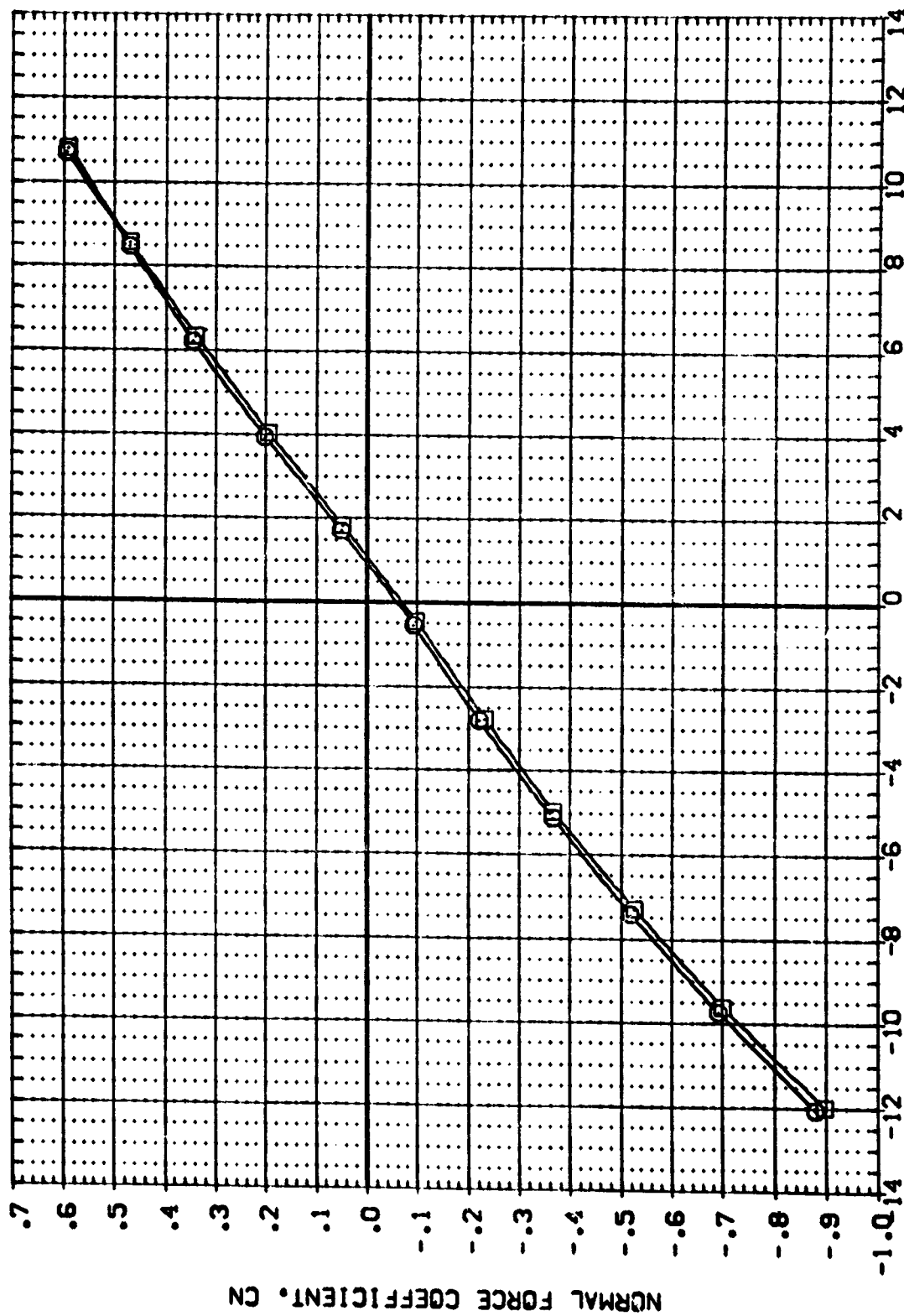
(C)MACH = .90



SET 37480. CONFIGURATION DESCRIPTION
 (38001) LRC 8 TPT 667 [A4] T1P1S1P201FR1
 (528004) LRC 8 TPT 667 [A4] T1P1S1P201

BETA 3.000
 3.000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XTRP 576.0000 INCHES
 YTRP 400.0000 INCHES
 ZTRP 400.0000 INCHES
 SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

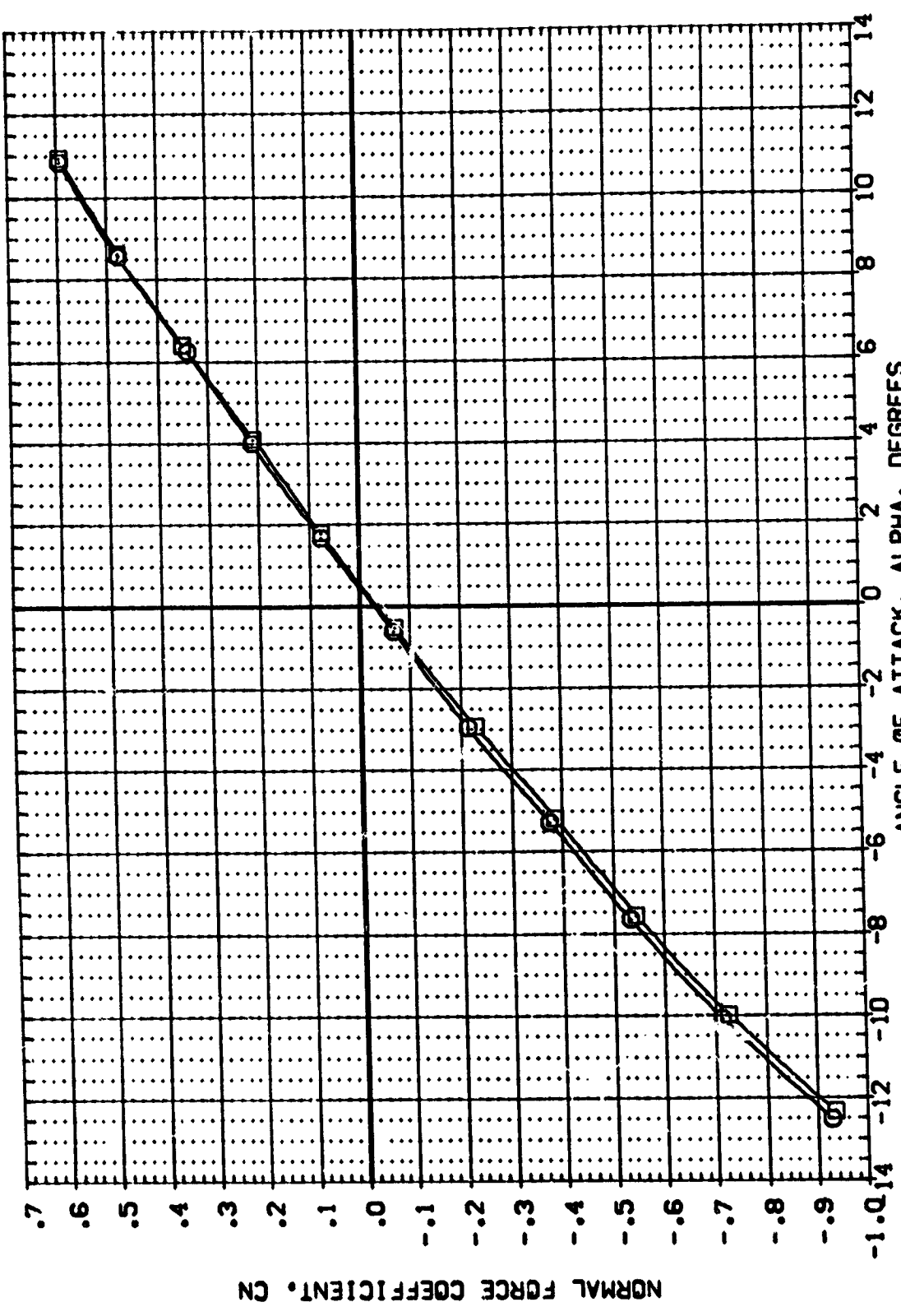
(D)MACH = .98



REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 400.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150

BETA RUDDER
.000 .000
.000 .000

DATA SET SYMBO. CONFIGURATION DESCRIPTION
LRC 8 TPT 667 [A4] TIP1SIP20IFRI
LRC 6 TPT 667 [A4] TIP1SIP20I



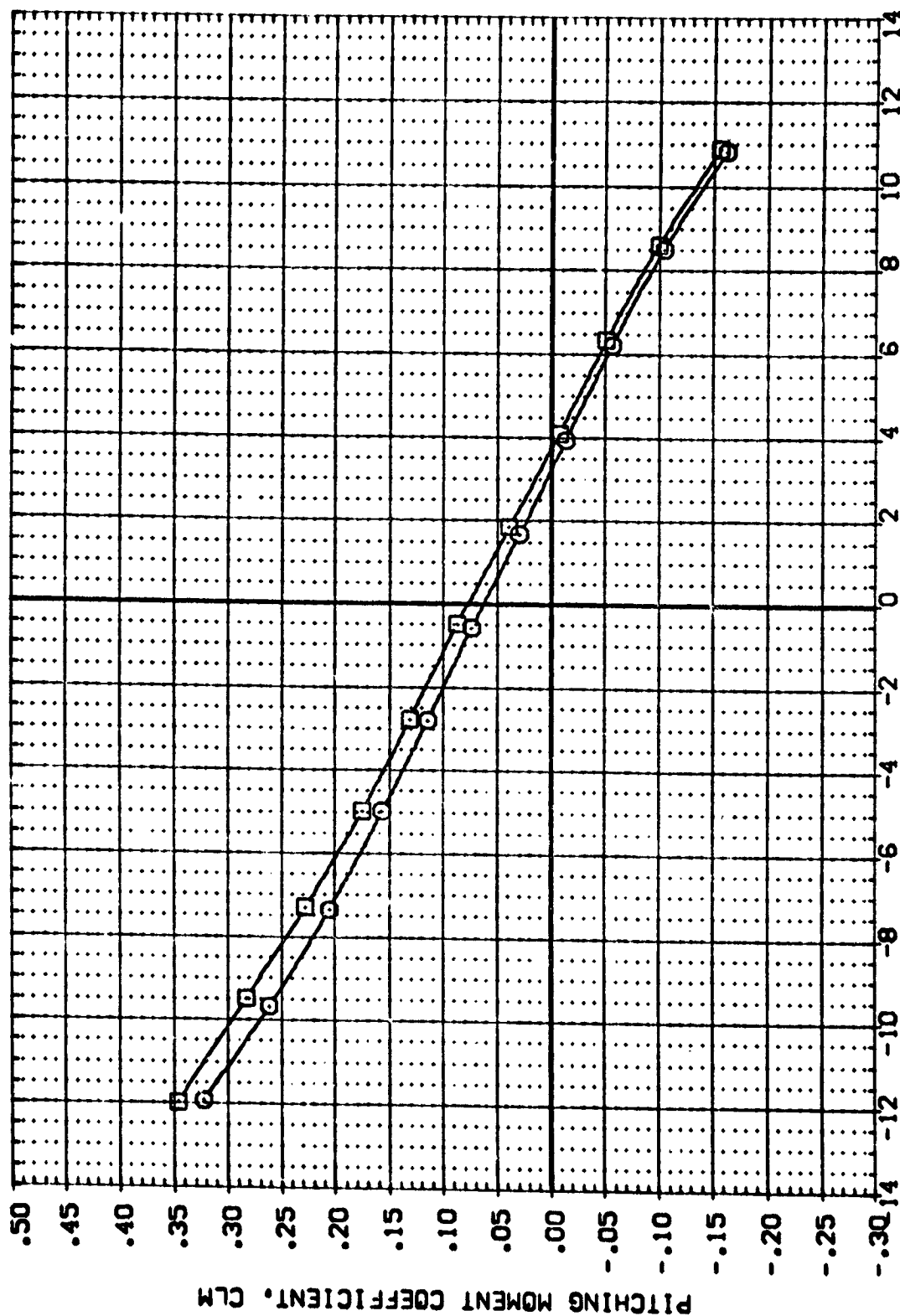
EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 1.20

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA .000
 RUDDER .000

SET SYMBOL CONFIGURATION DESCRIPTION
 LRC 8 TPT 667 1A41 TIPISIP201FRI
 LRC 8 TPT 667 1A41 TIPISIP201



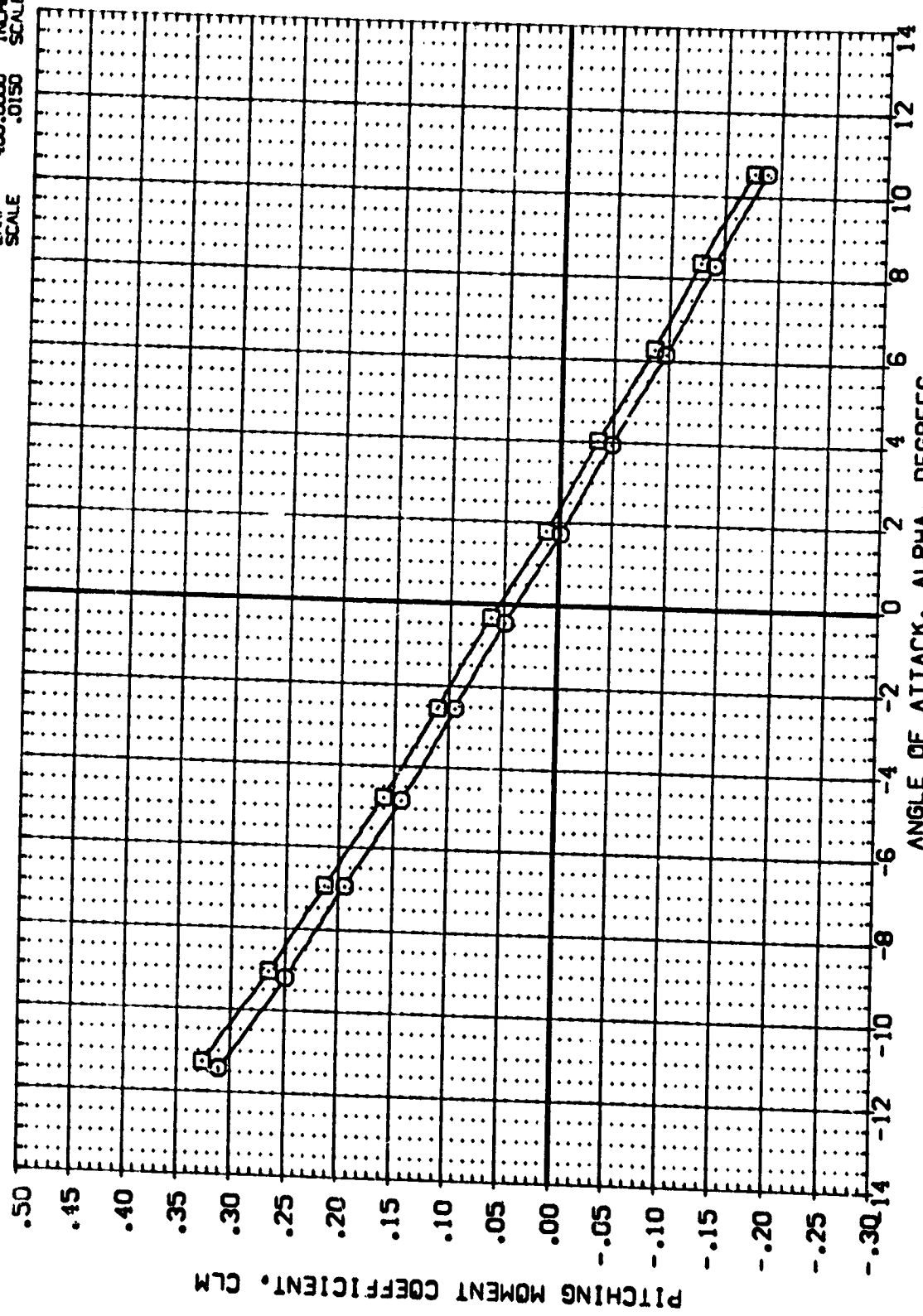
EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808001) LRC 8 IPT 557 1A1 TIPISIP201FRI
 (808004) LRC 8 IPT 657 1A1 TIPISIP201

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2650.0000 50.FT.
 LREF 1250.3000 INCHES
 BREF 1250.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 INCHES



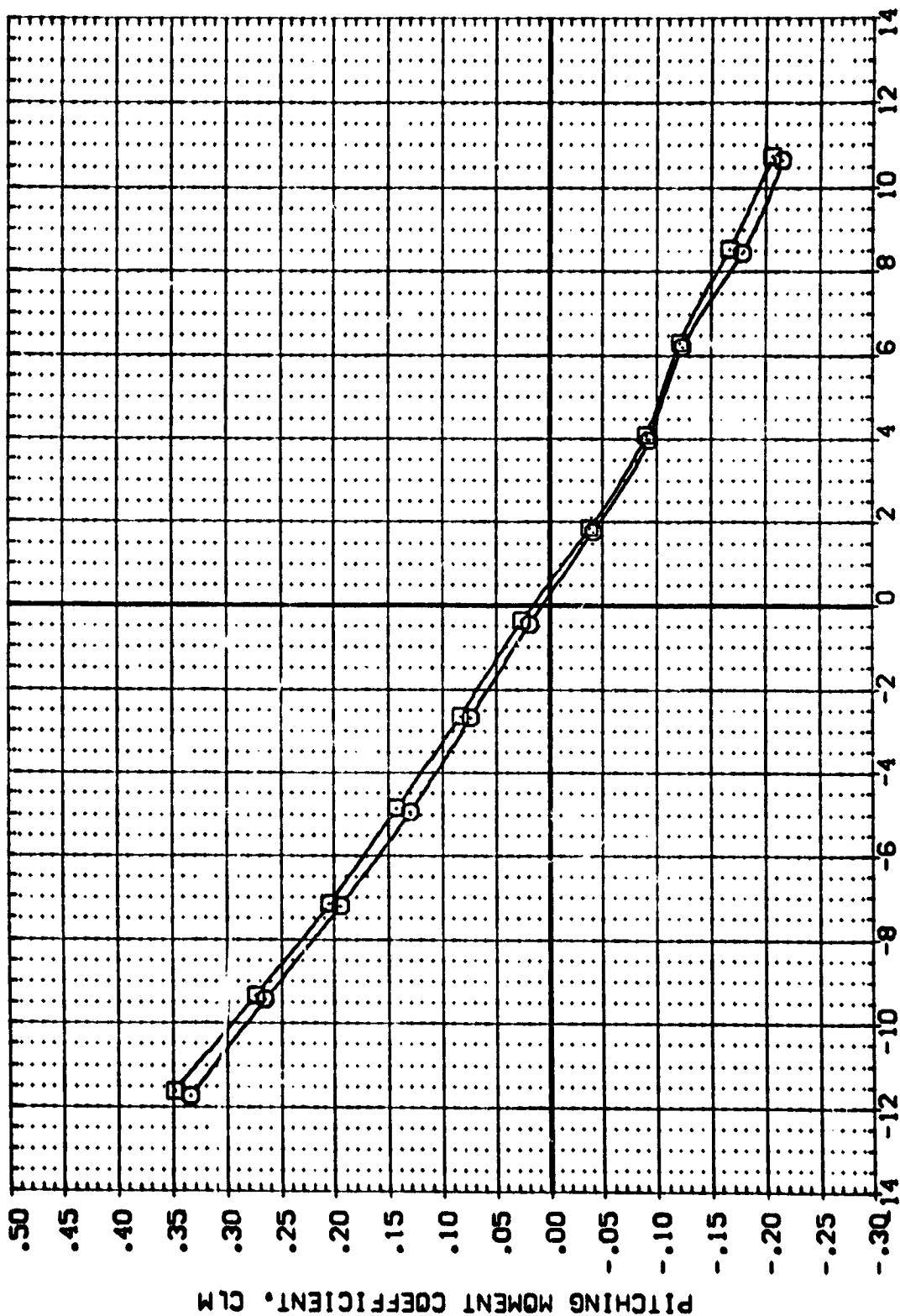
EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS
 (B)MACH = .80



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B08001) LRC 8 TPT 657 [A4] TIP[SIP20]FR1
 (B08004) LRC 8 TPT 657 [A4] TIP[SIP20]

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.0000 INCHES
 BREF 1290.0000 INCHES
 XMRP 576.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(C)MACH = .90

REFERENCE INFORMATION

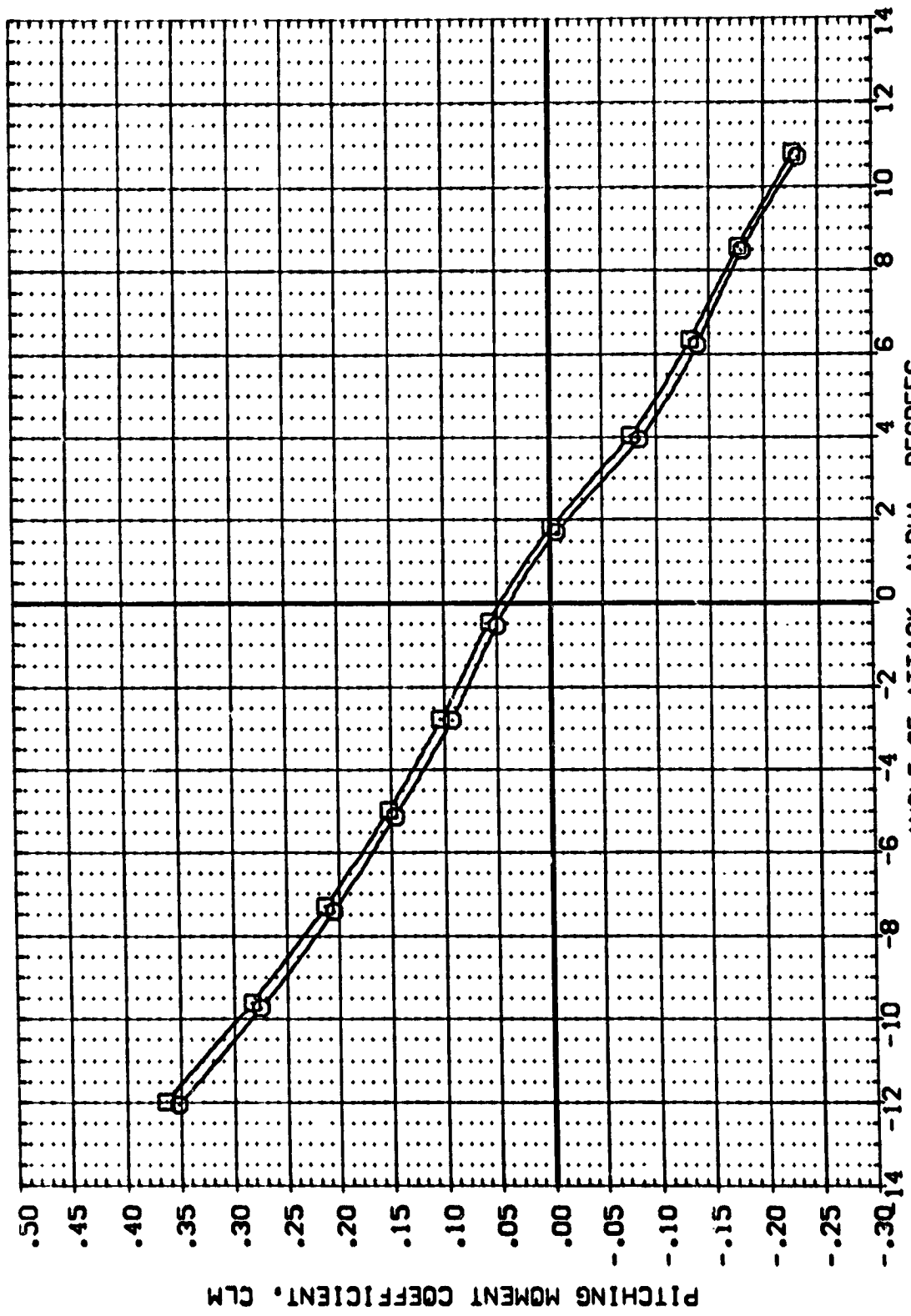
| | | |
|-------|-----------|--------|
| SREF | 2690.0000 | SG.FT. |
| LREF | 1290.3000 | INCHES |
| BREF | 1290.3000 | INCHES |
| XPRP | 576.0000 | INCHES |
| YPRP | .0000 | INCHES |
| ZPRP | 400.0000 | INCHES |
| SCALE | .0150 | SCALE |

BETA

| | |
|--------|------|
| RUDDER | .000 |
| | .000 |

DATA SET SYMBOL

| |
|-----------------------------------|
| CONFIGURATION DESCRIPTION |
| LRC 8 TPT 667 [A1] T1P1S1P20[FRI] |
| LRC 8 TPT 667 [A1] T1P1S1P20 |



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

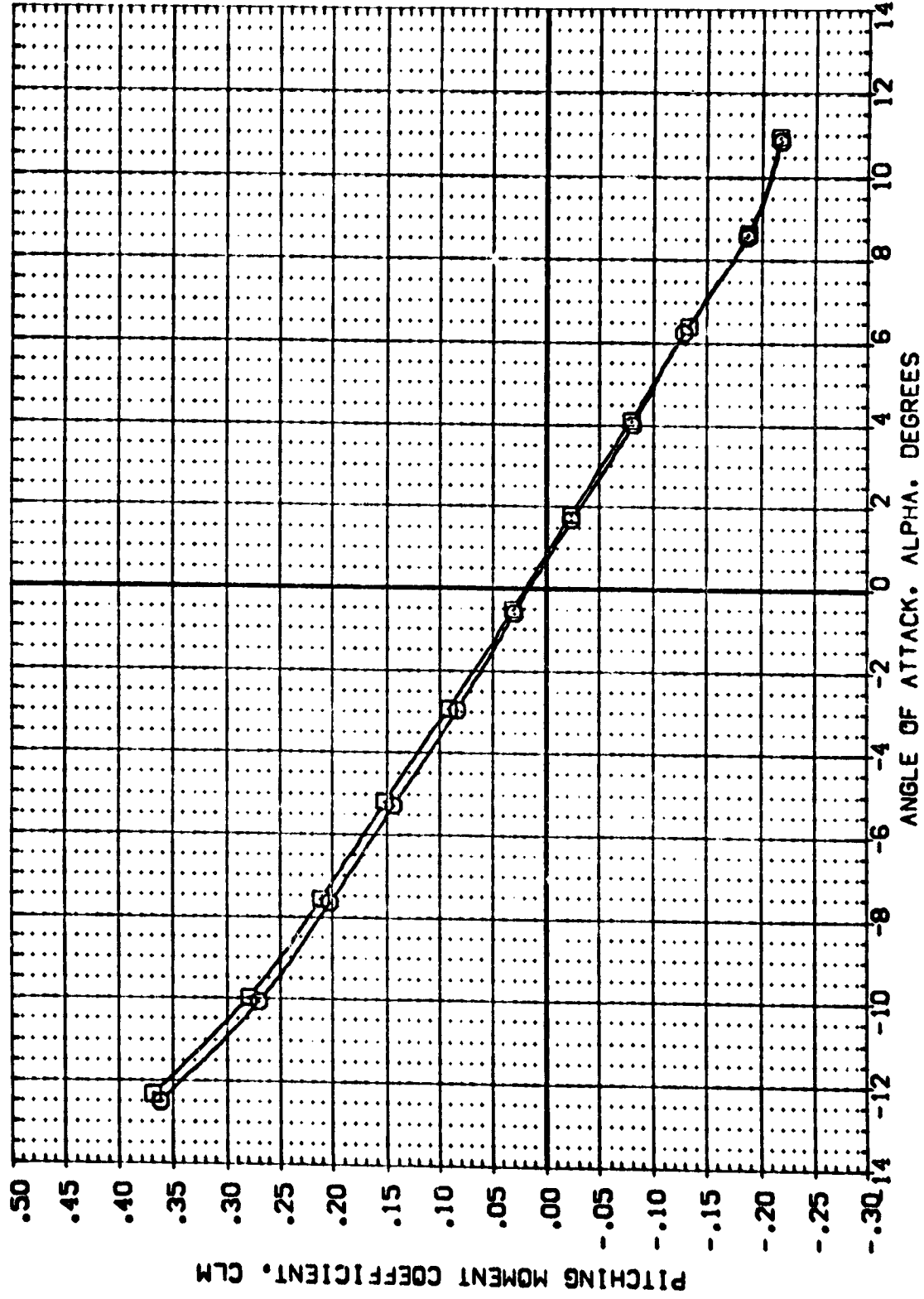
(D)MACH = .98



DATA SET SYMBOL: (808001) LRC 8 IPT 667 (A4) TIPISIP201FR1
 (808004) LRC 8 TET 667 (A4) TIPISIP201

SET: RUDER
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XPRP 576.0000 INCHES
 YPRP 400.0000 INCHES
 ZPRP 400.0000 INCHES
 SCALE .0150



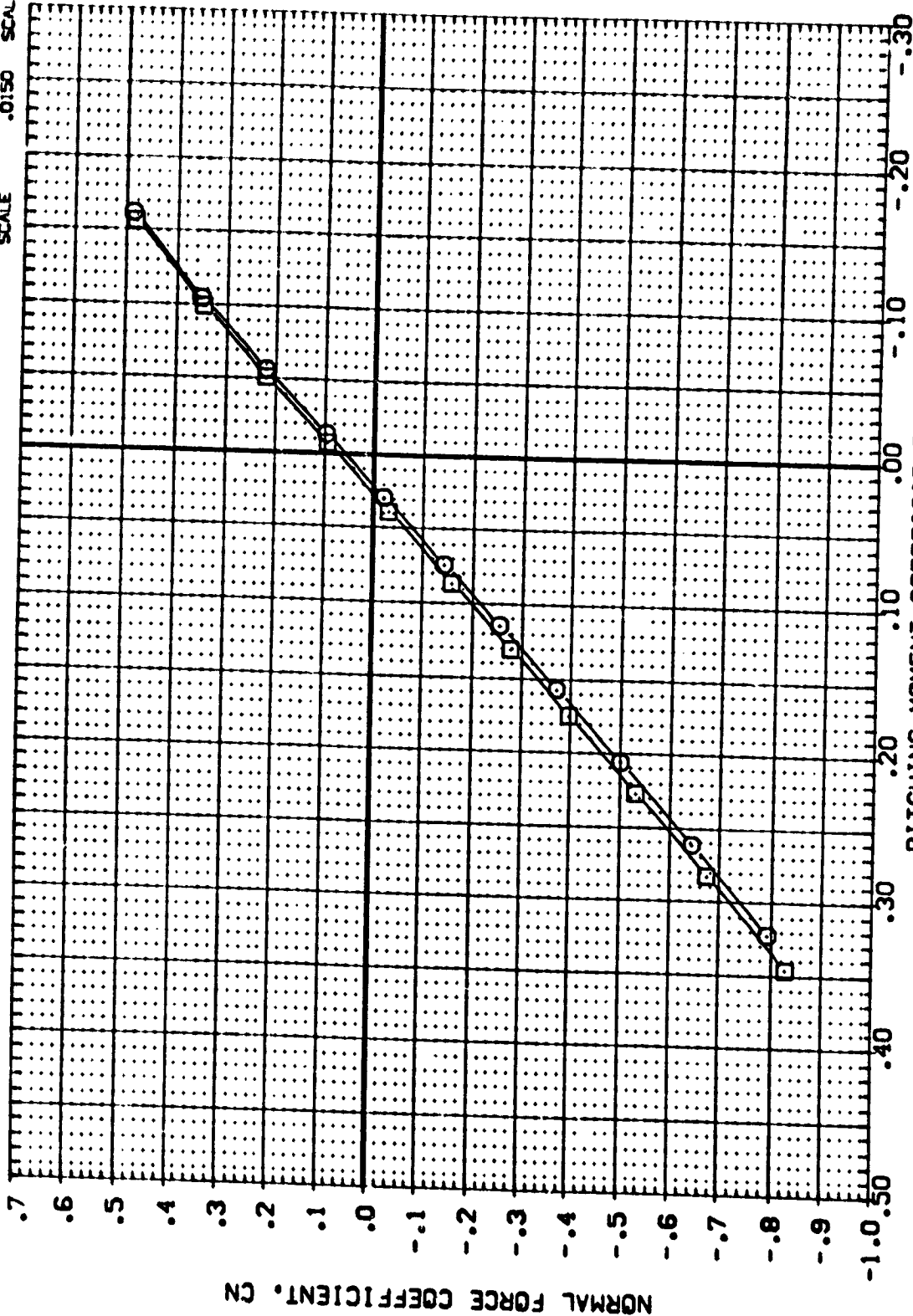
EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808001) 8 LRC 8 TPT 657 1A1 T1P1S1P201FRI
 (808001) 8 LRC 8 TPT 657 1A1 T1P1S1P201

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2550.0000 SO.FT.
 LREF 1250.3000 INCHES
 BREF 1250.3000 INCHES
 YARP 976.0000 INCHES
 ZARP 400.0000 INCHES
 SCALE .0150 SCALE



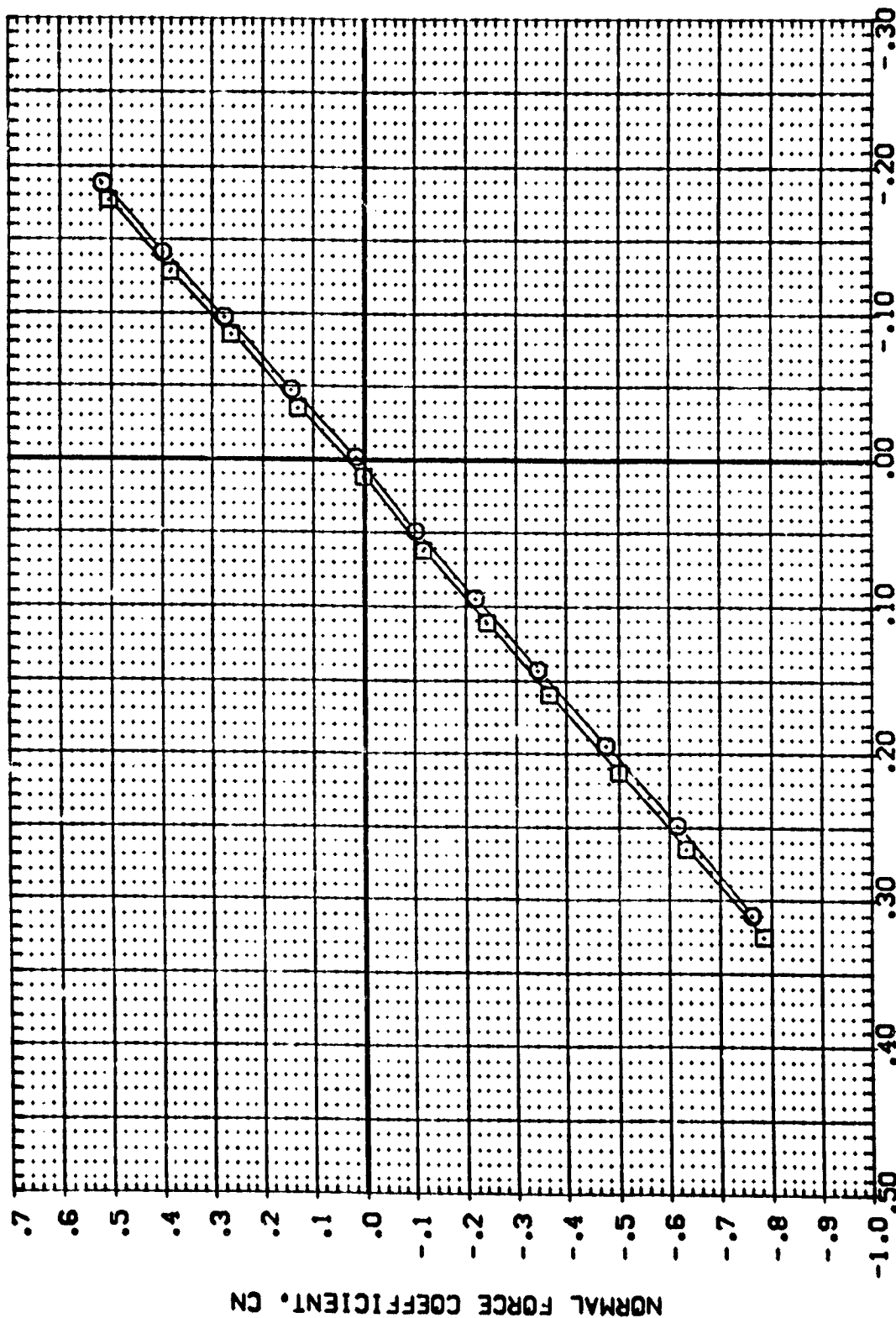
EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS
 (A)MACH = .60



1.4 SET SYMBOL
 (B08001) RC 8 TPT 657 1A41 TIPISIP201FR1
 (B08004) RC 8 TPT 657 1A41 TIPISIP201

BETA
 .000
 .000

REFERENCE INFORMATION
 SREF 2650.0000 SO.FT.
 LREF 1250.3000 INCHES
 BREF 1250.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



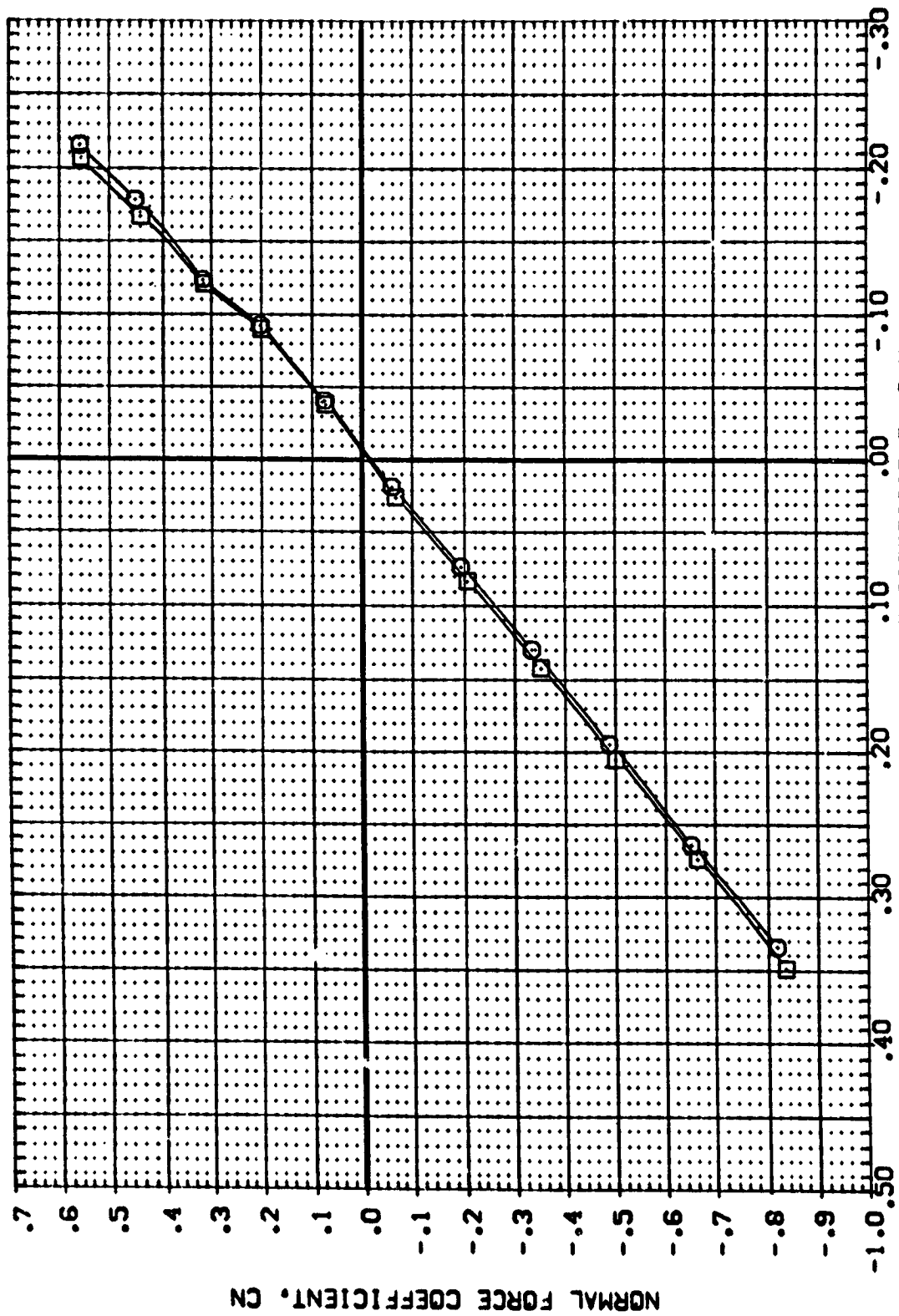
EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(B)MACH = .80

DATA SET SYMBOL: []
 CONFIGURATION DESCRIPTION:
 LRC 8 TPT 657 [A4] TIP1SIP20IFR1
 LRC 8 TPT 657 [A4] TIP1SIP20

BETA: .000
 RUDDER: .000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 XPRP: 576.0000 INCHES
 YPRP: .0000 INCHES
 ZPRP: 400.0000 INCHES
 SCALE: .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

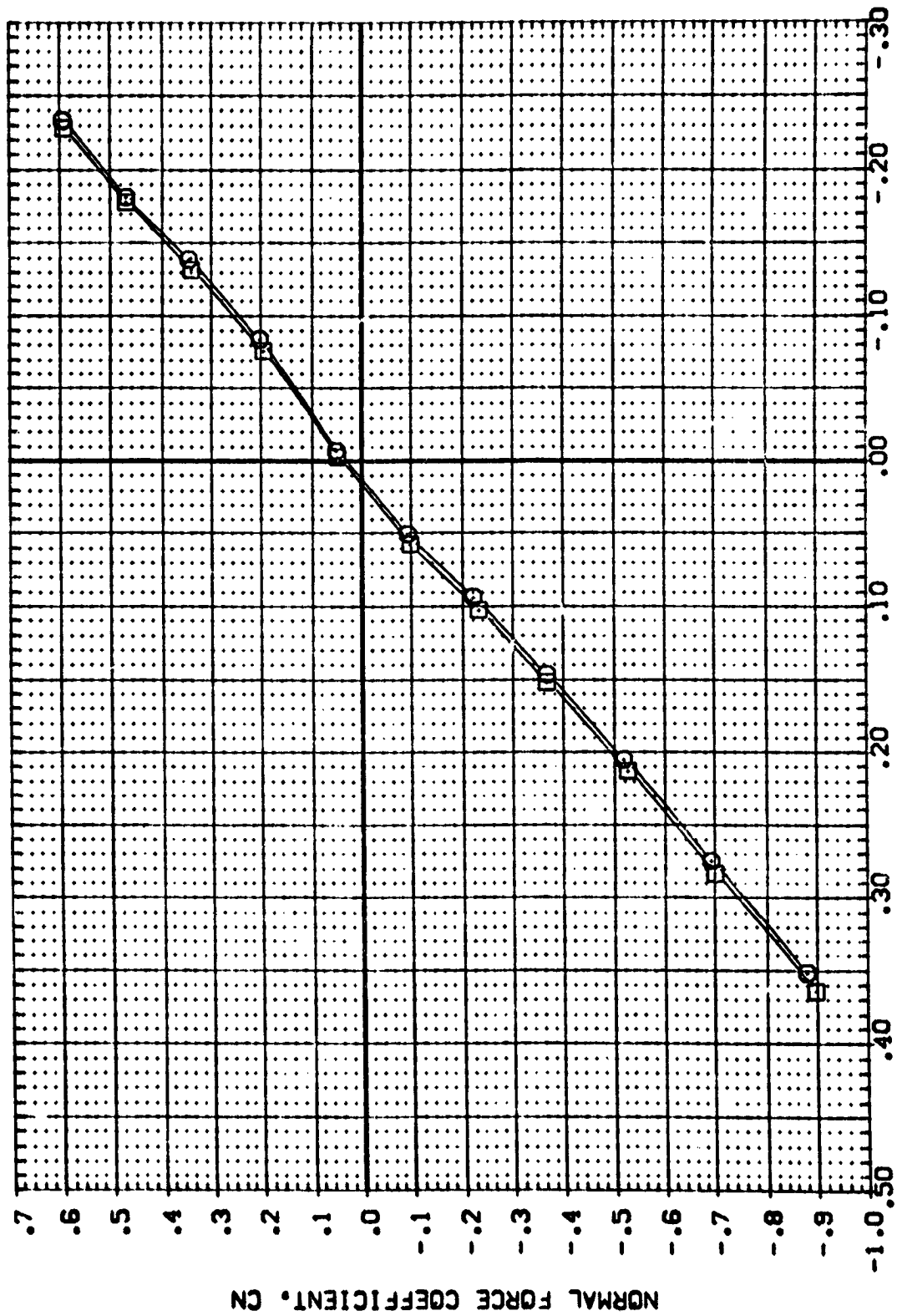
(C)MACH = .90



DATA SET SYMBOL: (808001)
 CONFIGURATION DESCRIPTION: LRC 8 TPT 657 [A4] T1P1SIP201FR
 (808004) LRC 8 TPT 657 [A4] T1P1SIP201

BETA: .000
 RUDDER: .000

REFERENCE INFORMATION
 SREF: 2690.0000 SQ.FT.
 LREF: 1230.0000 INCHES
 BREF: 1290.0000 INCHES
 YMRP: 976.0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150



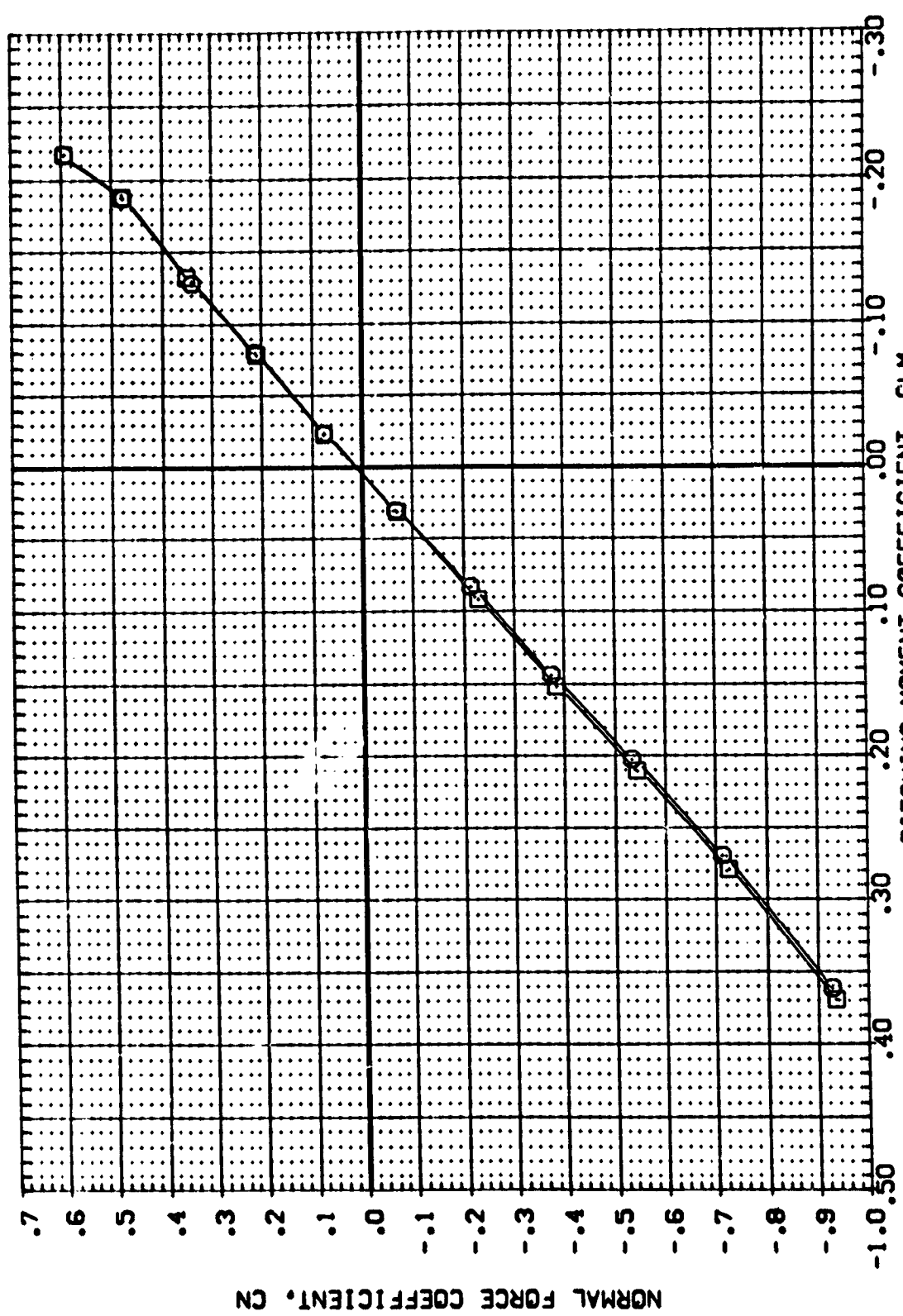
EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(CO)MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B080C) LRC 8 1PT 657 1A41 T1PISIP20IFRI
 (B080C) LRC 8 1PT 657 1A41 T1PISIP20I

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 IN-ES
 BREF 1290.3000 IN-ES
 XMRP 576.0000 IN-ES
 YMRP 400.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS
 (EJMACH = 1.20)

DATA SET SYMBOL: (000001) (000004) ☐ ☐

CONFIGURATION: LARC TESTS [A1] AND [A42A/B] LARC TESTS [A1] AND [A42A/B]

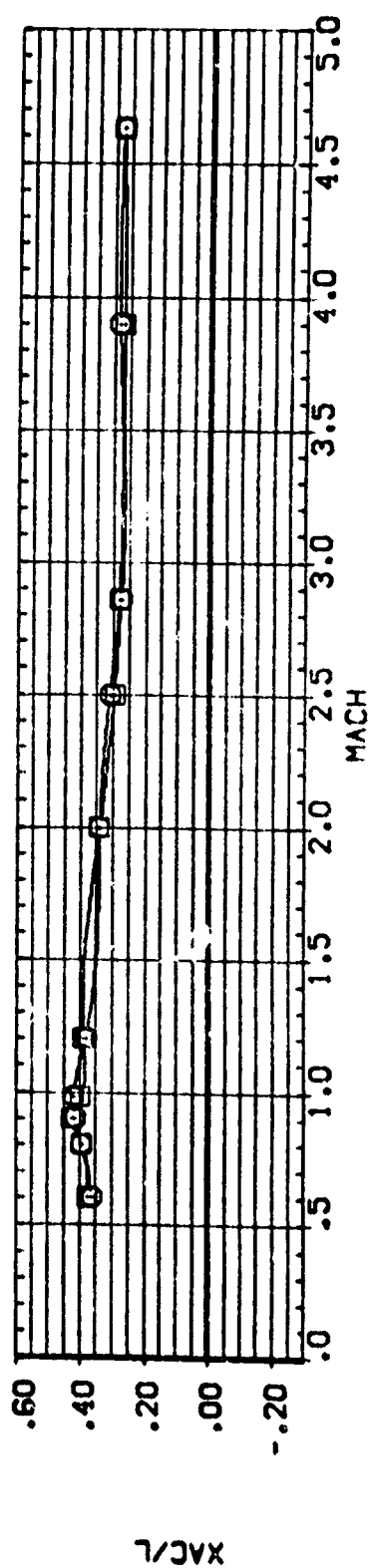
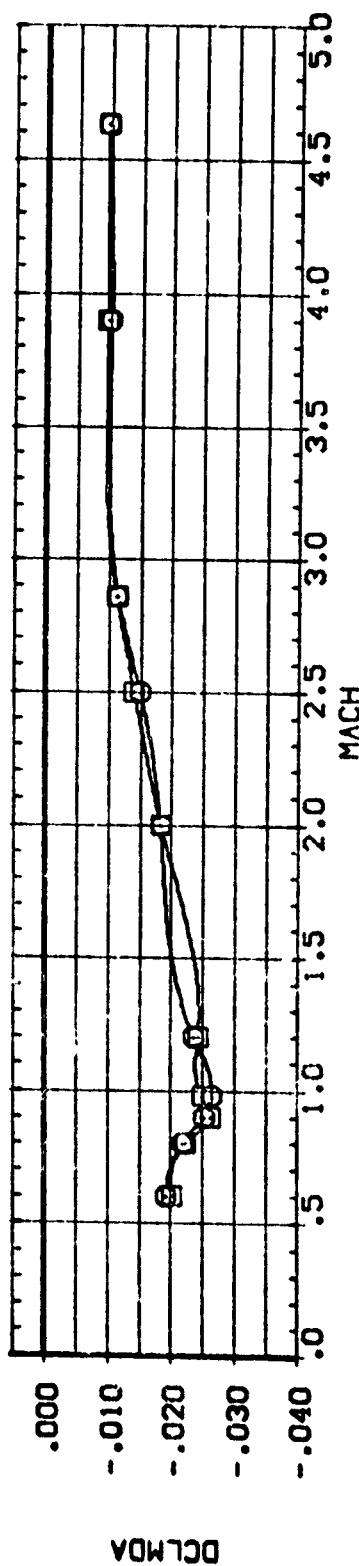
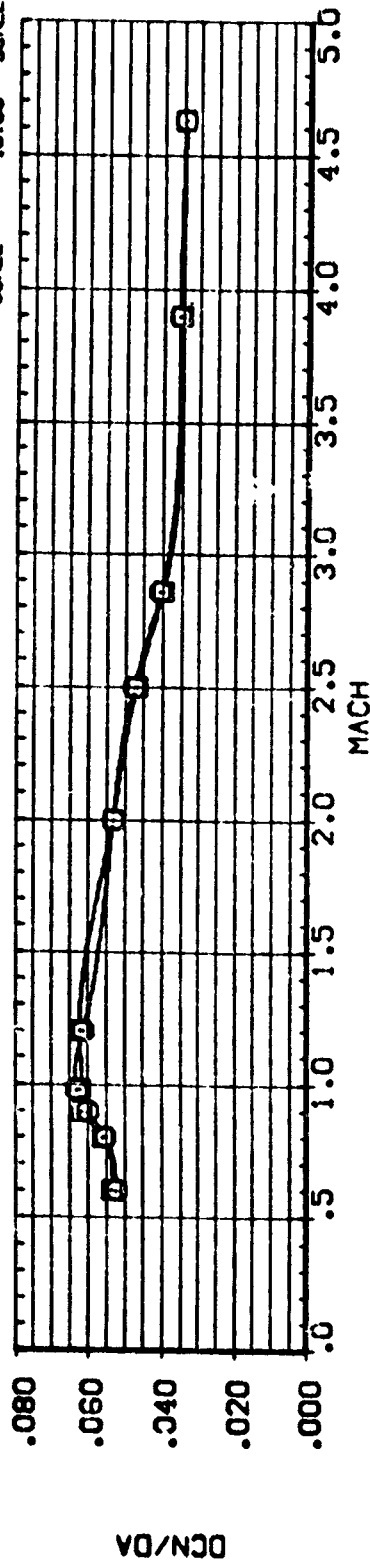
DESCRIPTION: TIP(S)IP20(FRI) TIP(S)IP20(I)

BETA: .000 .000

RUDDER: .000 .000

REFERENCE INFORMATION:

| | | |
|-------|-----------|--------|
| SREF | 2690.0000 | 50.FT. |
| LREF | 1250.3000 | INCHES |
| BREF | 1250.3000 | INCHES |
| XMRP | 976.0000 | INCHES |
| YMRP | 400.0000 | INCHES |
| ZMRP | 400.0000 | INCHES |
| SCALE | .0150 | SCALE |

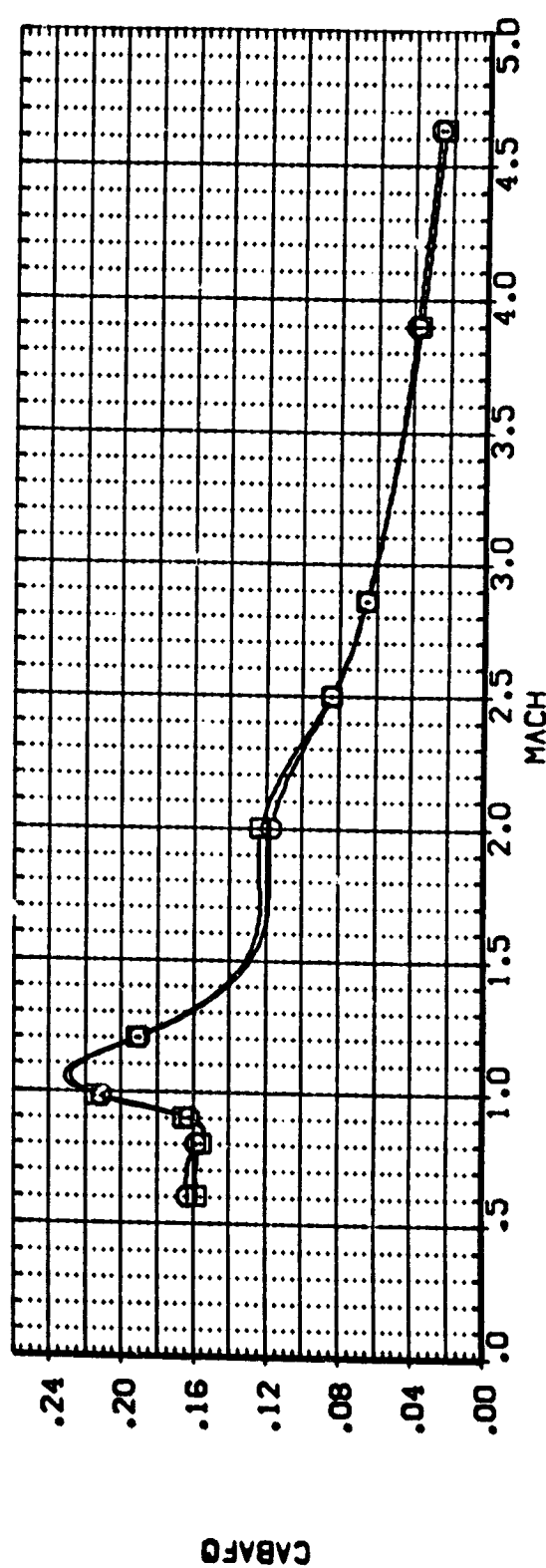
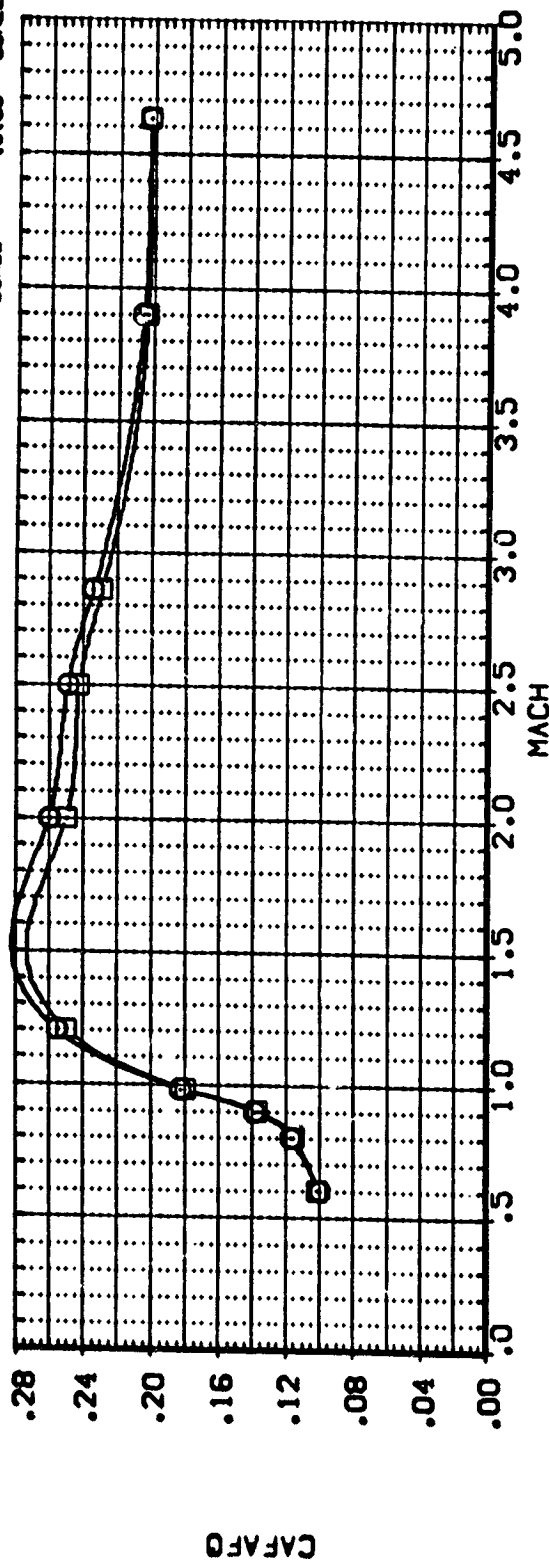


EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBL. 9
 [C08001] LARC TESTS [A1] AND [A12A/B] TIP[S]P20[FRI]
 [C08004] LARC TESTS [A1] AND [A12A/B] TIP[S]P20

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INO-ES
 BREF 1290.3000 INO-ES
 XMRP 976.0000 INO-ES
 YMRP 0.0000 INO-ES
 ZMRP 400.0000 INO-ES
 SCALE .0150 SCALE

BETA .000 RUDDER .000



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

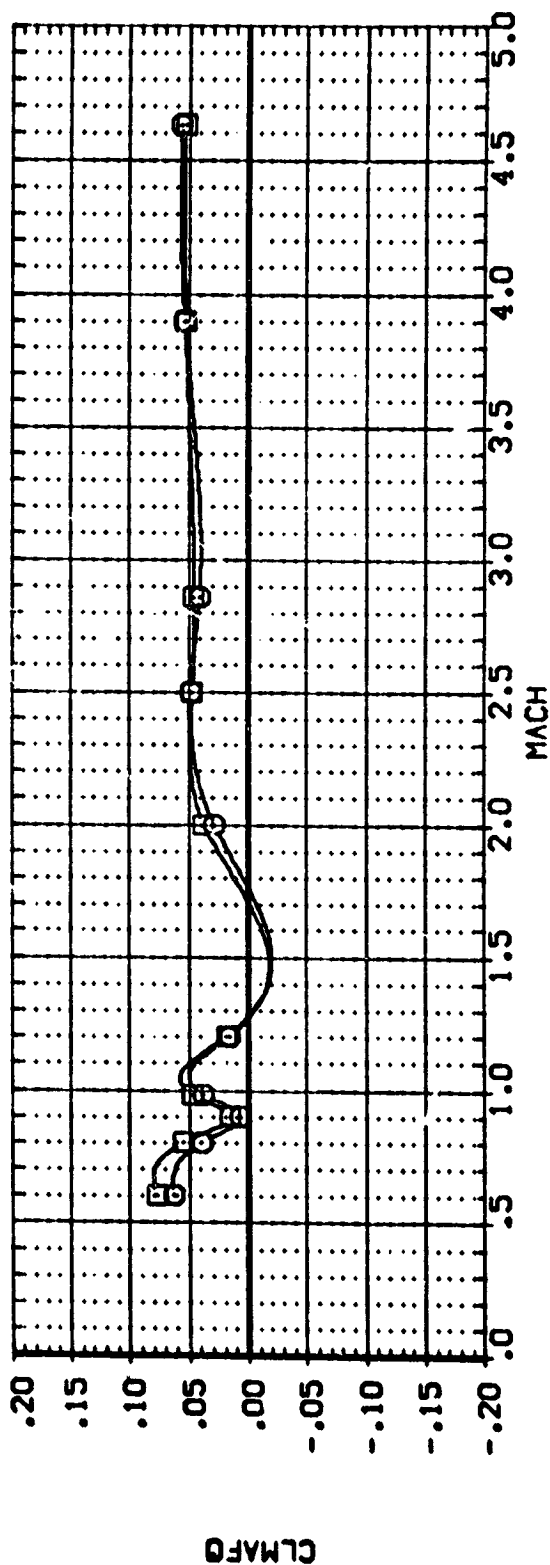
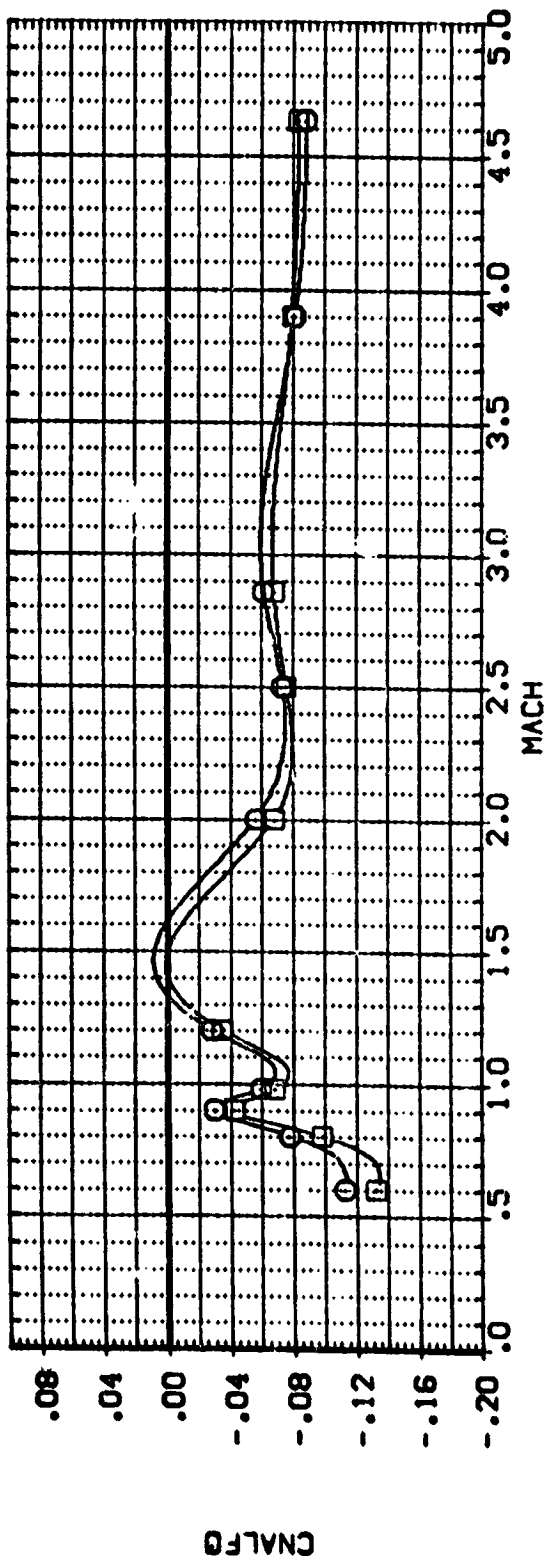


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C08001) LARC TEST'S 1A41 AND 1A42A/B
 (C08004) LARC TEST'S 1A41 AND 1A42A/B

TIPISIP201FRI
 TIPISIP201

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1290.3000 INCHES
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 XMRP 975.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE

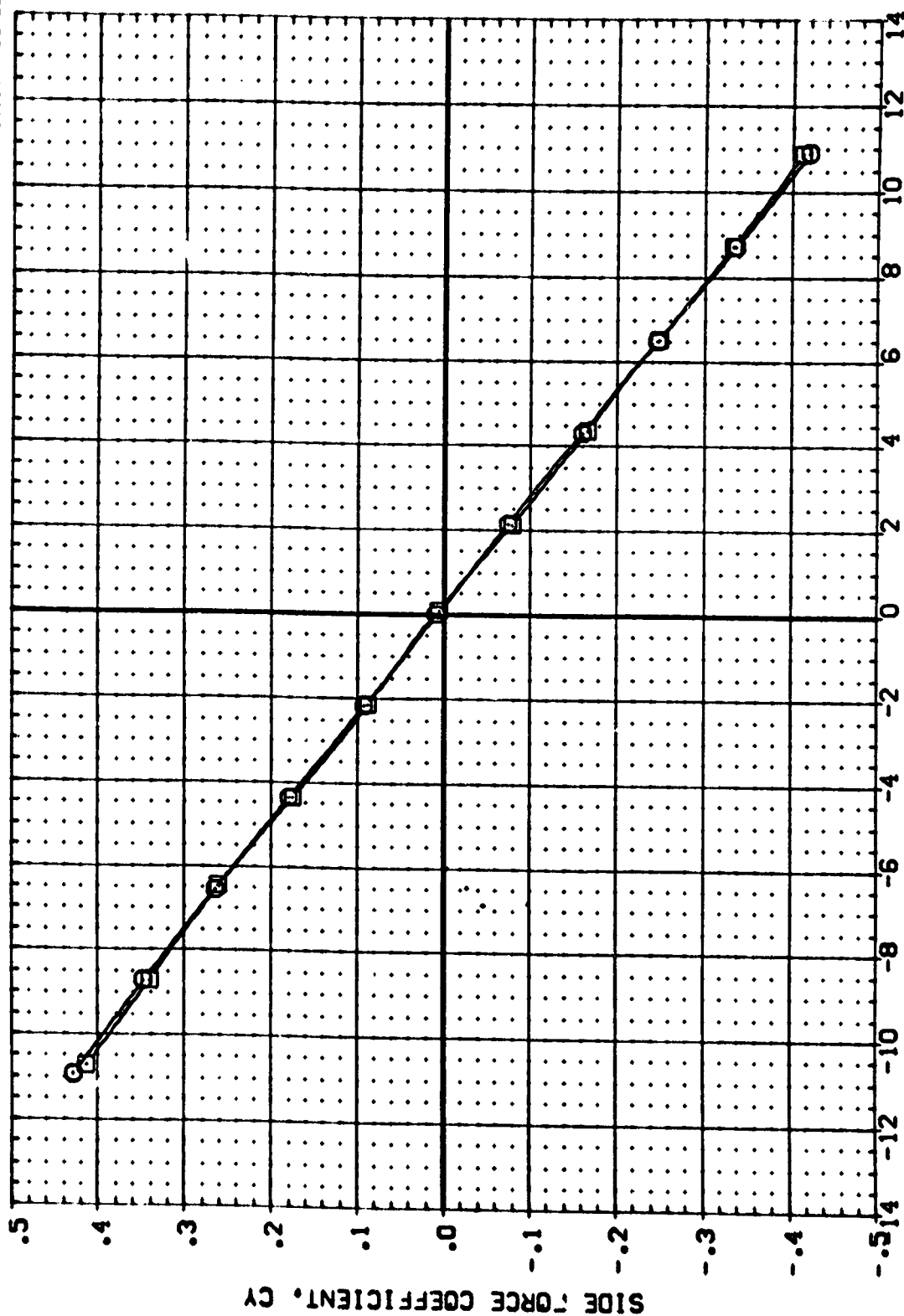


EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B08002) LRC 8 IPT 667 1A1 TIPSIP201FR1
 (B08003) LRC 8 IPT 667 1A1 TIPSIP201

ALPHA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 IN-ES
 BREF 1290.3000 IN-ES
 XMRP 976.0000 IN-ES
 YMRP 400.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 SCALE

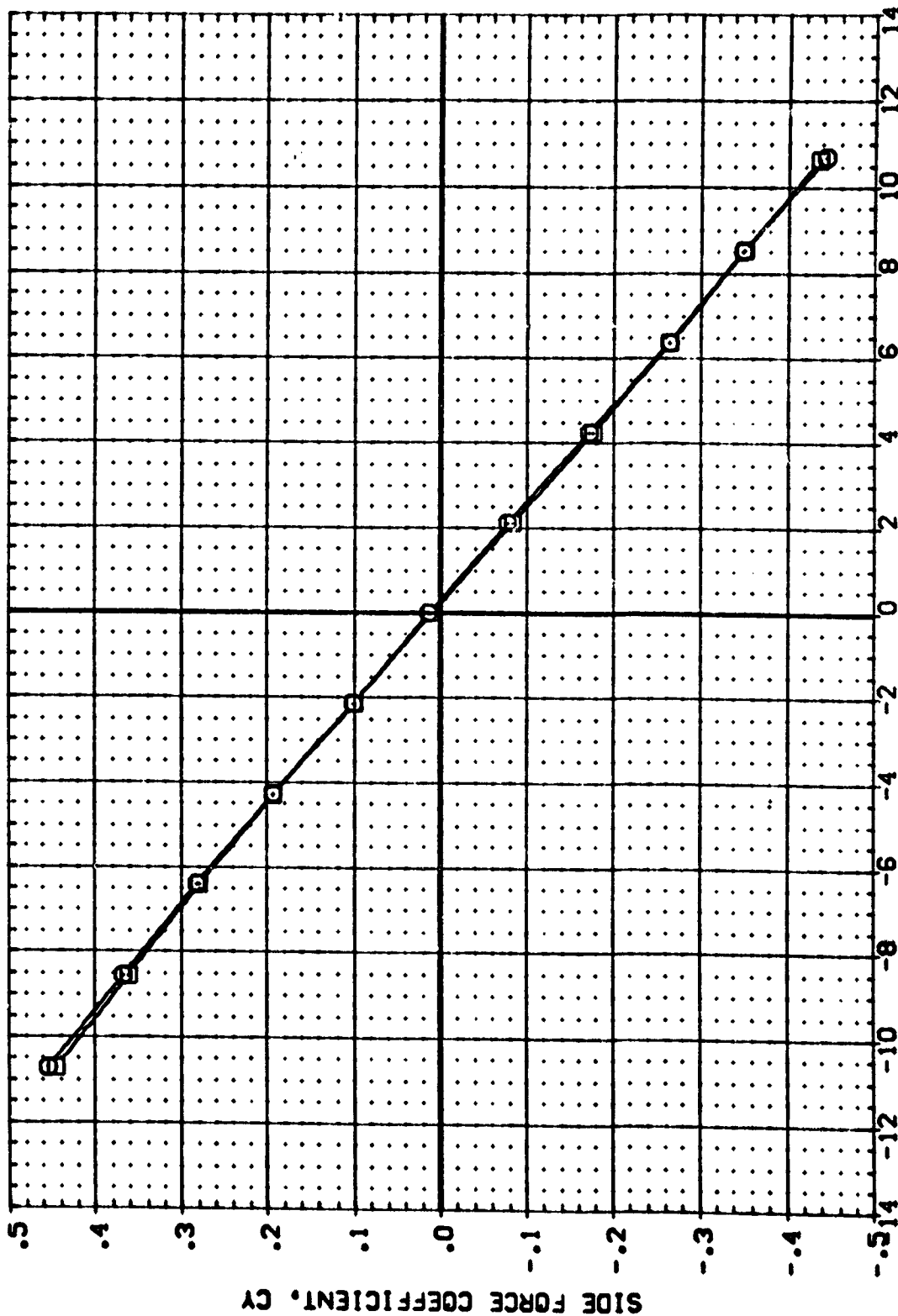


EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS
 (A)MACH = .60

[01] SET SYMBO. CONFIGURATION DESCRIPTION
 [030002] RC 8 IPT 667 [A4] TIPISIP201FR;
 [080003] RC 8 IPT 667 [A4] TIPISIP201

ALPHA P.OOER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2650.0000 50.FT
 LREF 1250.3000 IN-ES
 BREF 1250.3000 IN-ES
 XMRP 976.0000 IN-ES
 YMRP .0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS
 SIDESLIP ANGLE, BETA, DEGREES

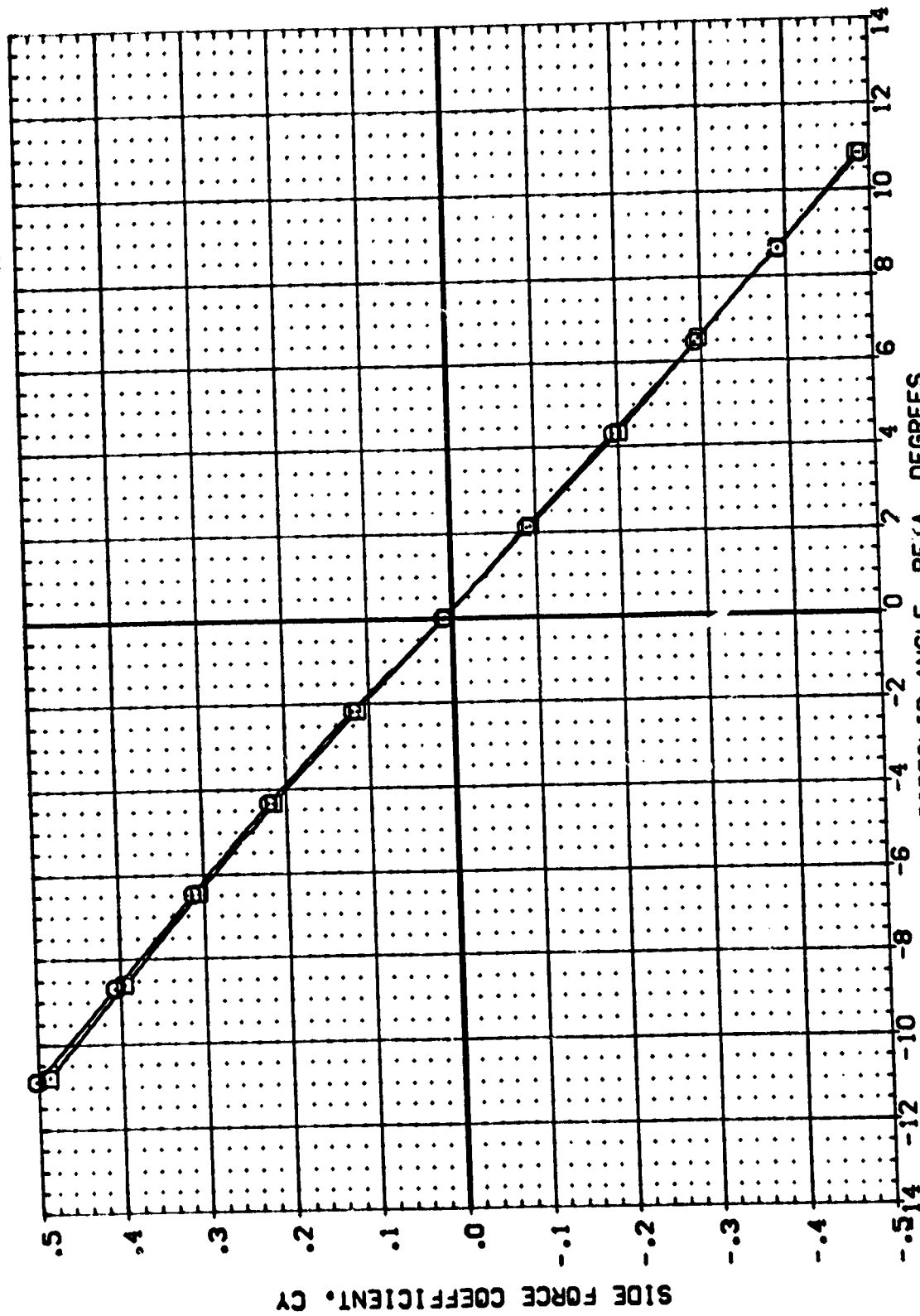
(B)MACH = .80



REFERENCE INFORMATION
SREF 2650.0000 50.FT.
LREF 1250.3000 IN-ES
BREF 1250.3000 IN-ES
XMRP 976.0000 IN-ES
YMRP 400.0000 IN-ES
ZMRP 400.0000 IN-ES
SCALE .0150

ALPHA RUDDER
.000 .000
.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[808002] 8 LRC 8 TPT 657 [A1] T1P1S1P20[FRI]
[808003] 8 LRC 8 TPT 657 [A1] T1P1S1P20

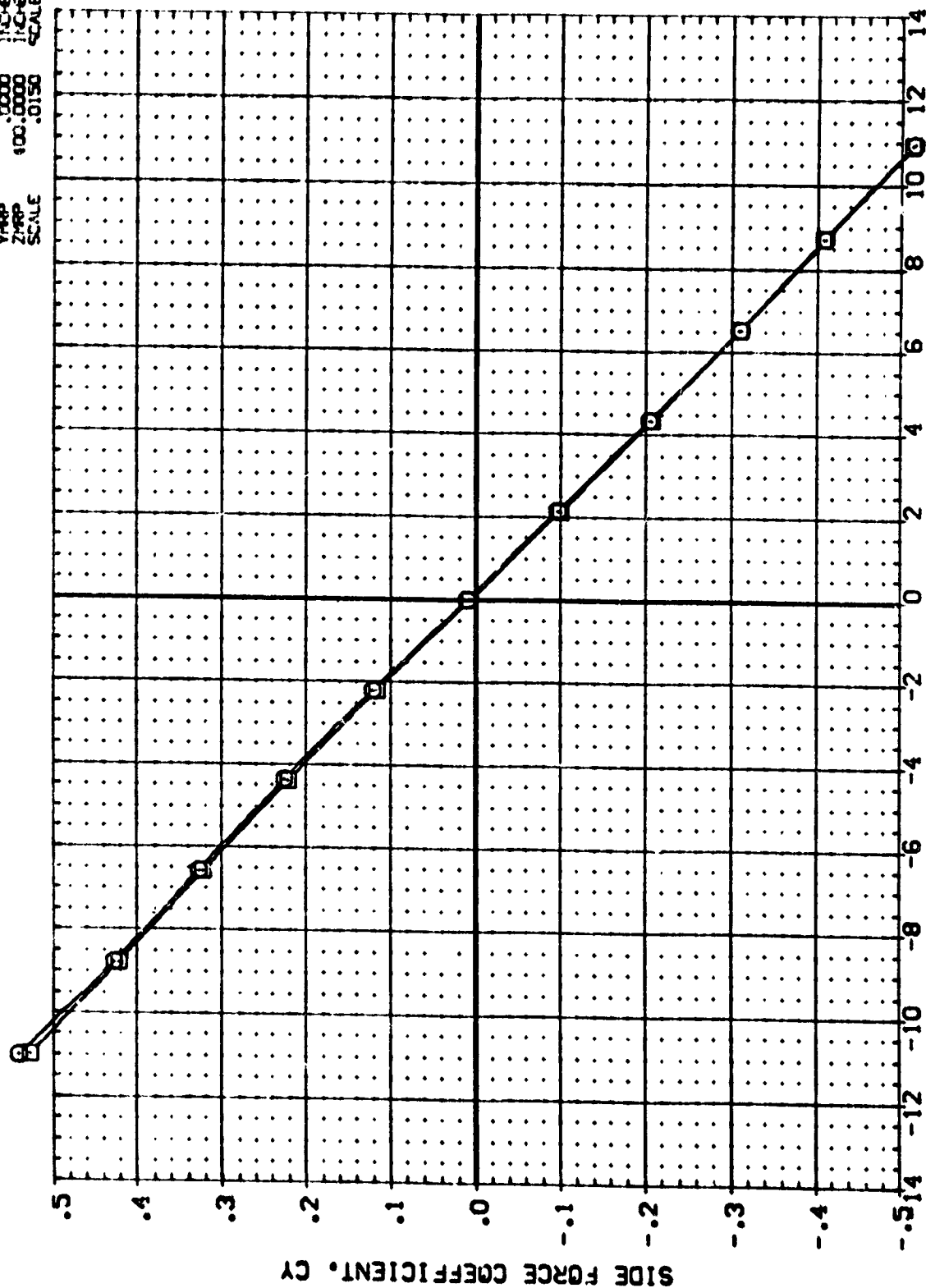


EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS
SIDESLIP ANGLE, β , DEGREES

(C)MACH = .90

| | |
|--------|-------|
| A. 100 | FLOOR |
| .000 | .000 |
| .000 | .000 |

| REFERENCE INFORMATION | |
|-----------------------|------------------|
| SREF | 2630.0000 SQ.FT. |
| LREF | 1290.3000 INCHES |
| BREF | 1290.3000 INCHES |
| XREF | 576.0000 INCHES |
| YREF | 100.0000 INCHES |
| ZREF | 100.0000 INCHES |
| SCALE | .0150 SCALE |

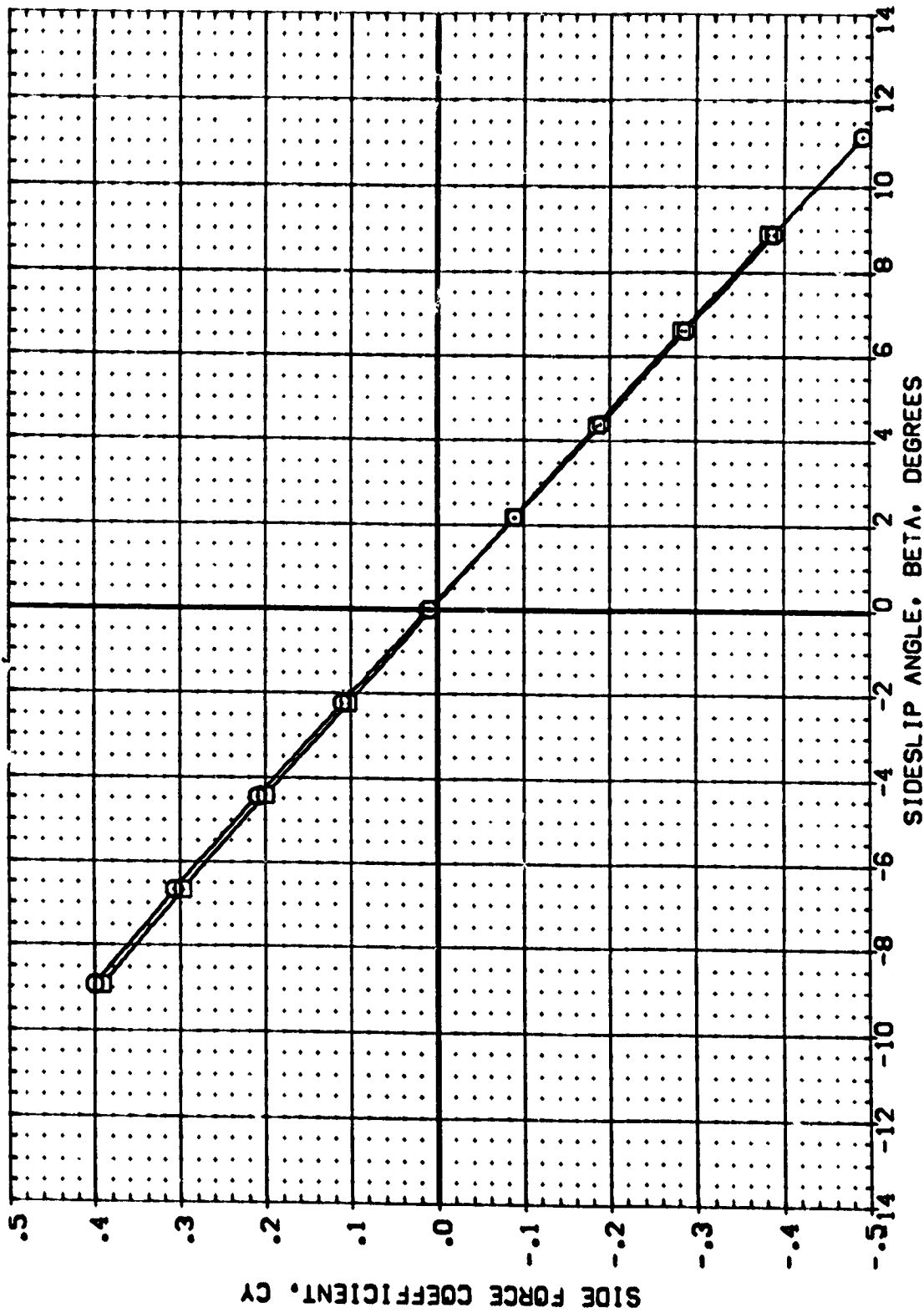


EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

$$(D)_{MACH} = .98$$

PAGE 117

| | | | | |
|-----------------|----------------------------------|-------|--------|-----------------------|
| DATA SET SYMBOL | CONFIGURATION DESCRIPTION | ALPHA | RUDDER | REFERENCE INFORMATION |
| (808002) | LRC 8 TPT 657 [A1] T1P1SIP201FR1 | .000 | .000 | SREF 2690.0000 50.FT. |
| (808003) | LRC 8 TPT 657 [A1] T1P1SIP201 | .000 | .000 | LREF 1290.3000 INCHES |
| | | | | BREF 1290.3000 INCHES |
| | | | | XMRP 976.0000 INCHES |
| | | | | YMRP 400.0000 INCHES |
| | | | | ZMRP 400.0000 INCHES |
| | | | | SCALE .0150 |



EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

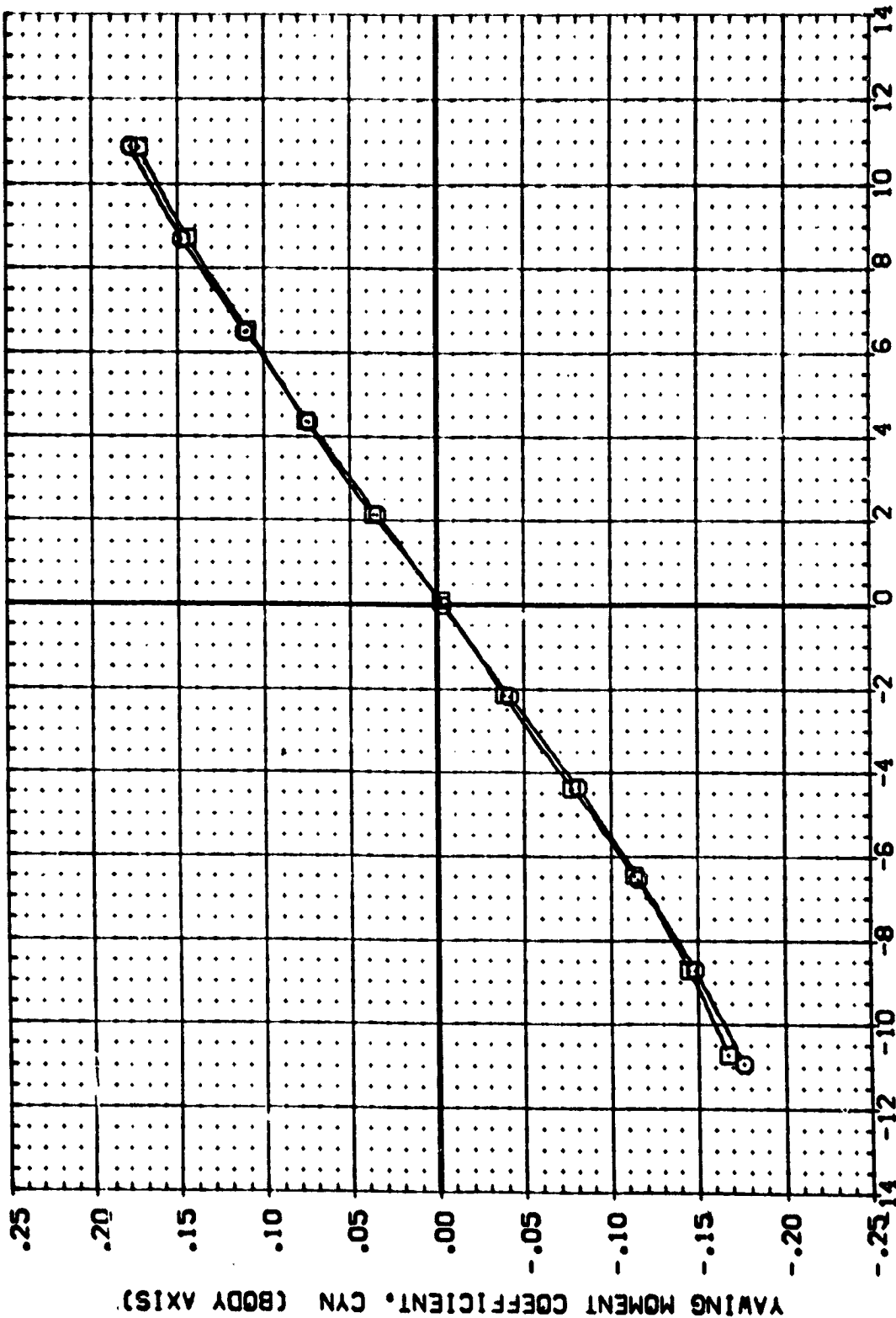
(E)MACH = 1.20



DATA SET SYMBOL: [800002] [800003]
 CONFIGURATION DESCRIPTION:
 LRC 8 TPT 657 [A1] TIP[SIP20]FR1
 LRC 8 TPT 657 [A1] TIP[SIP20]

ALPHA: .000
 RUDDER: .000

REFERENCE INFORMATION:
 SREF 2690.0000 SQ.FT.
 LREF 1290.0000 INCHES
 BREF 1290.0000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 0.0000 INCHES
 SCALE .0150



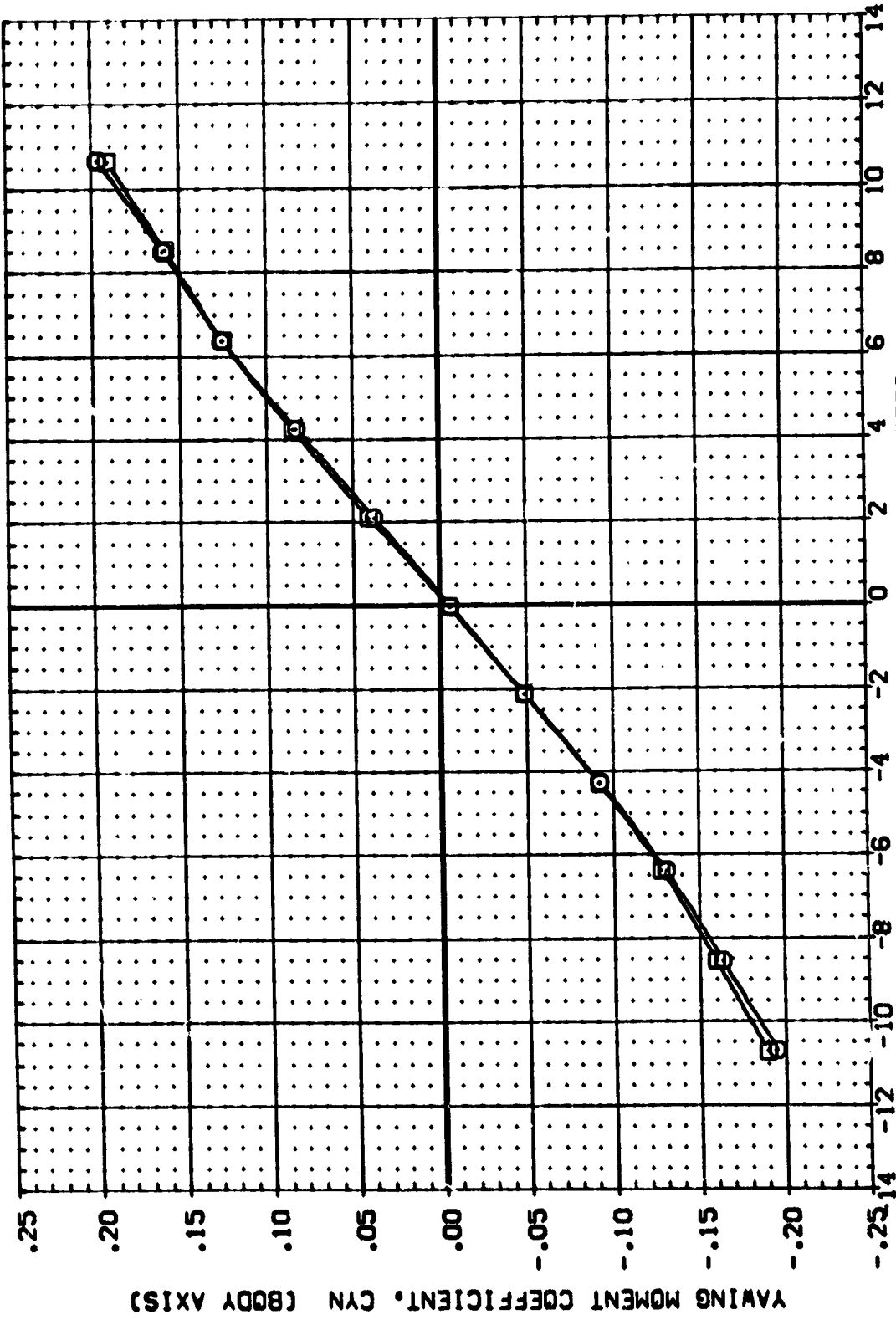
EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

(A)MACH = .60

REFERENCE INFORMATION
 SREF 2630.0000 50 FT.
 LREF 1290.3000 100-ES
 BREF 1290.3000 100-ES
 YMRP 576.0000 100-ES
 ZMRP 400.0000 100-ES
 SCALE .0150 SCALE

ALPHA RUDDER
 .000 .000
 .000 .000

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 (808002) LRC 8 TPT 667 [A1] TIP[S]P201FRI
 (808003) LRC 8 TPT 667 [A1] TIP[S]P201



EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

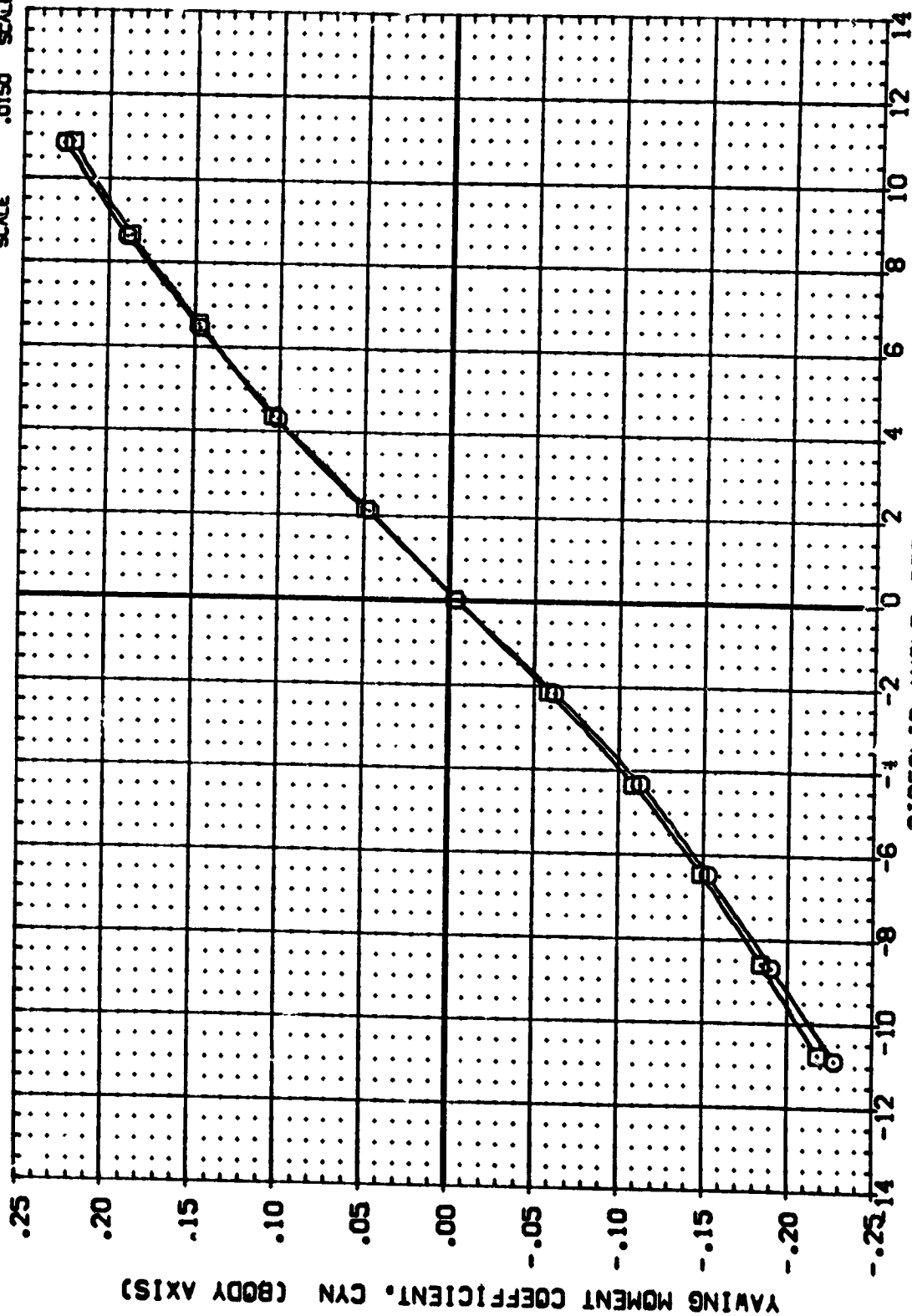
(B)MACH = .80



DATA SET SYMB. CONFIGURATION DESCRIPTION
 (808002) LUC 8 TPT 667 1A1 TIPISIP201FF1
 (808003) LUC 8 TPT 667 1A1 TIPISIP201

ALPHA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XPRP 976.0000 INCHES
 YPRP 400.0000 INCHES
 ZPRP 400.0000 INCHES
 SCALE .0150 SCALE



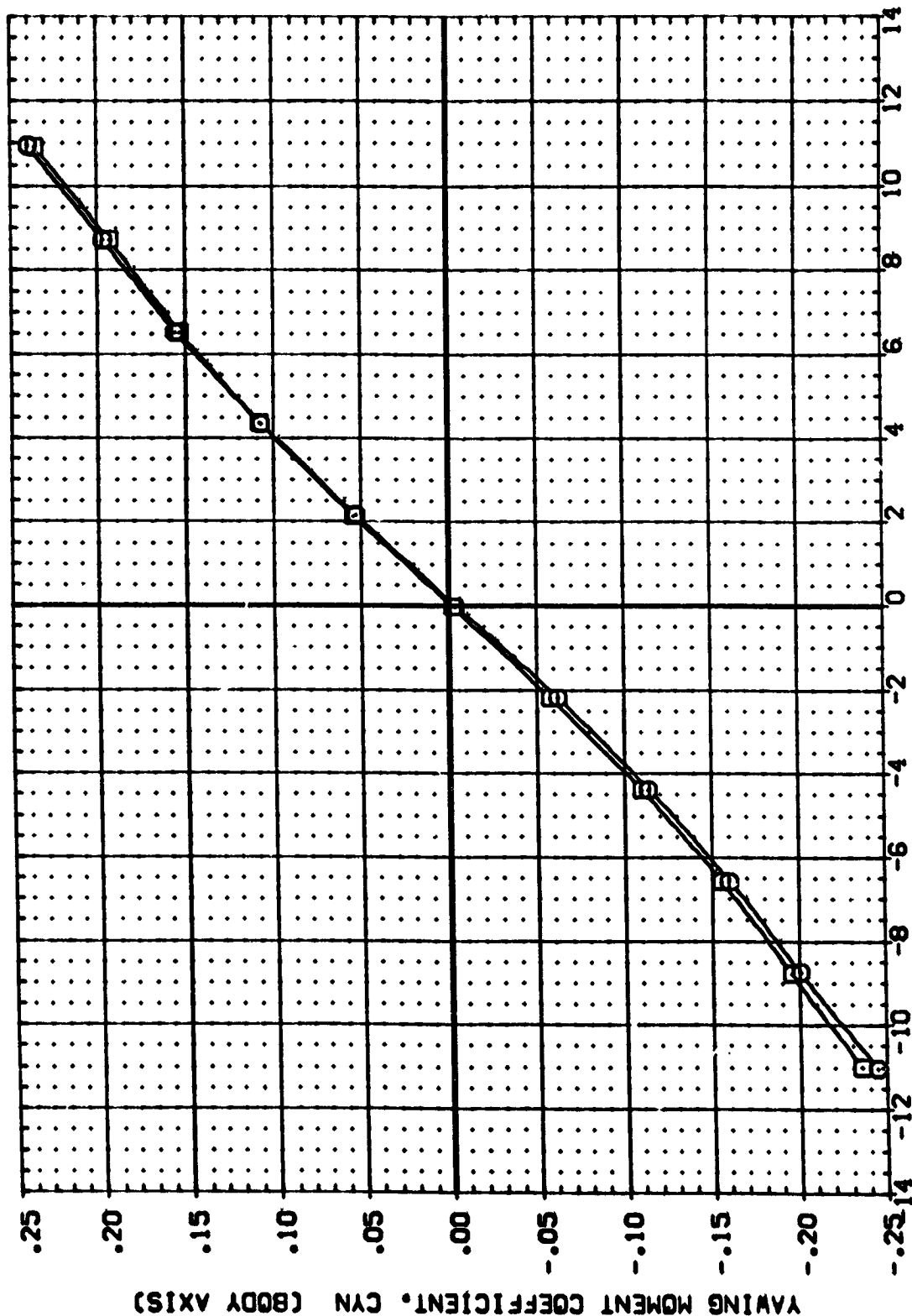
EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS
 (C)MACH = .90



REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 400.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150 SCALE

ALPHA RUDDER
.000 .000
.000 .000

DATA SET SYMBO. CONFIGURATION DESCRIPTION
(828002) LRC 8 TPT 667 [A4] TIP[SIP20]FP1
(828003) LRC 8 TPT 667 [A4] TIP[SIP20]



EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

(D)MACH = .98

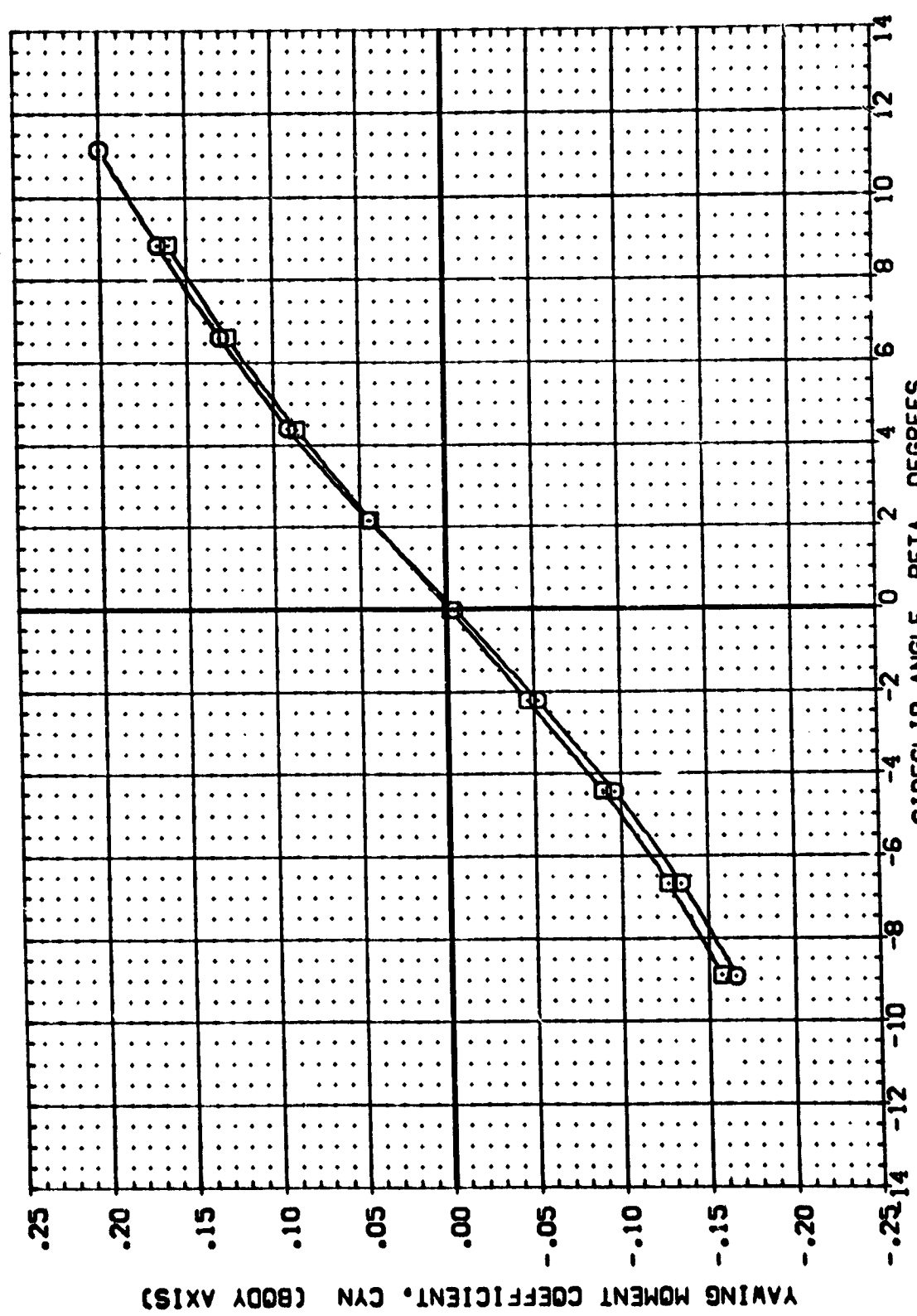
DATA SET SYMBOLS: (808002) (808003)

CONFIGURATION DESCRIPTION: LRC 8 IPT 657 1A41 TIPISIP201FRI LRC 8 IPT 657 1A41 TIPISIP201

ALPHA: .000 .000

RUDDER: .000 .000

REFERENCE INFORMATION: SREF 2650.0000 50.FT. LREF 1250.3000 IN-ES BREF 1250.3000 IN-ES YHRR 578.0000 IN-ES ZHRR 400.0000 IN-ES SCALE .0150

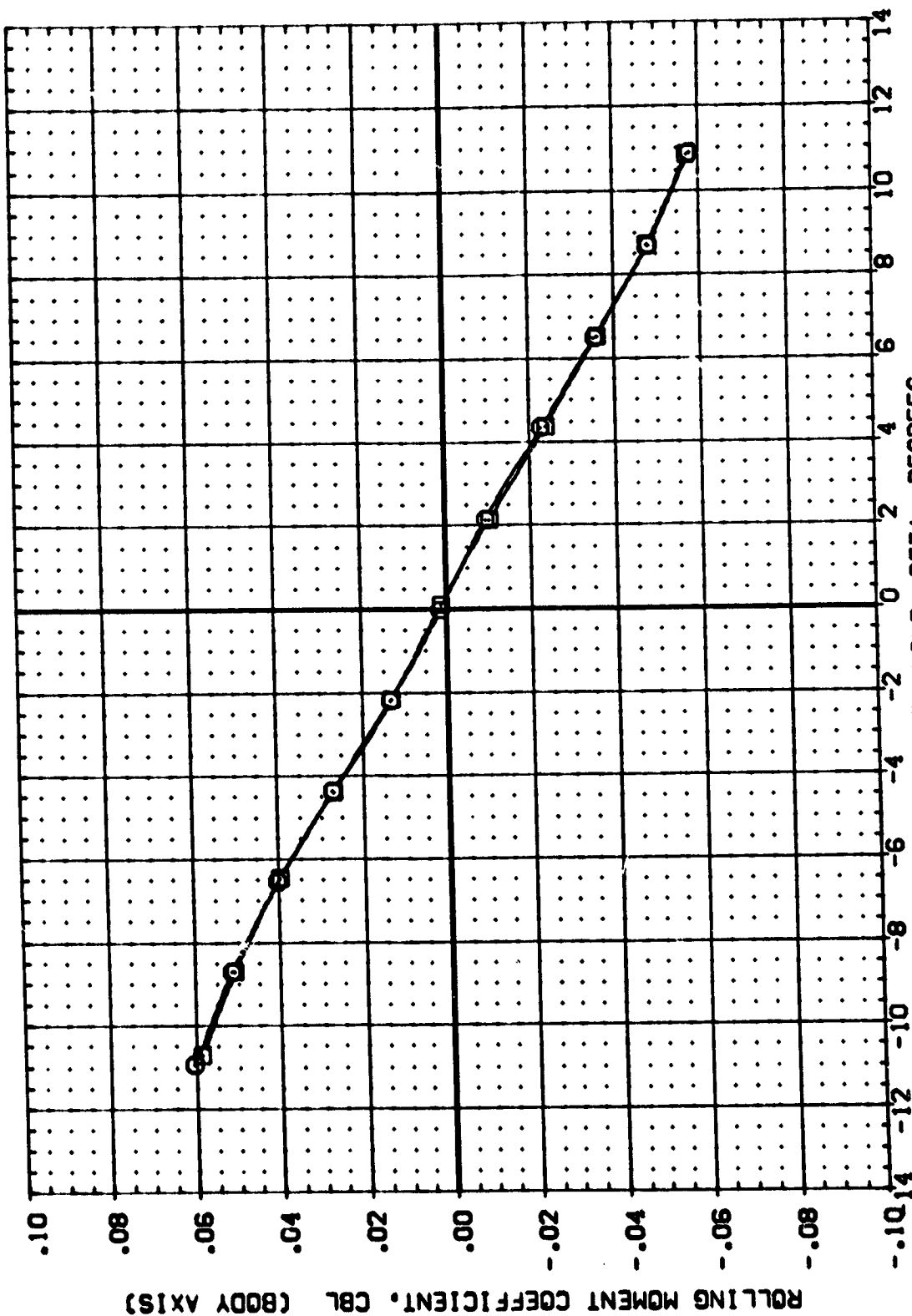


EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1250.0000 INCHES
 BREF 1250.0000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE

ALPHA RUDDER
 .000 .000
 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808002) LRC 8 TPT 657 [A4] TIP[SIP20]FRI
 (808003) LRC 8 TPT 657 [A4] TIP[SIP20]



SIDESLIP ANGLE, BETA, DEGREES
 EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

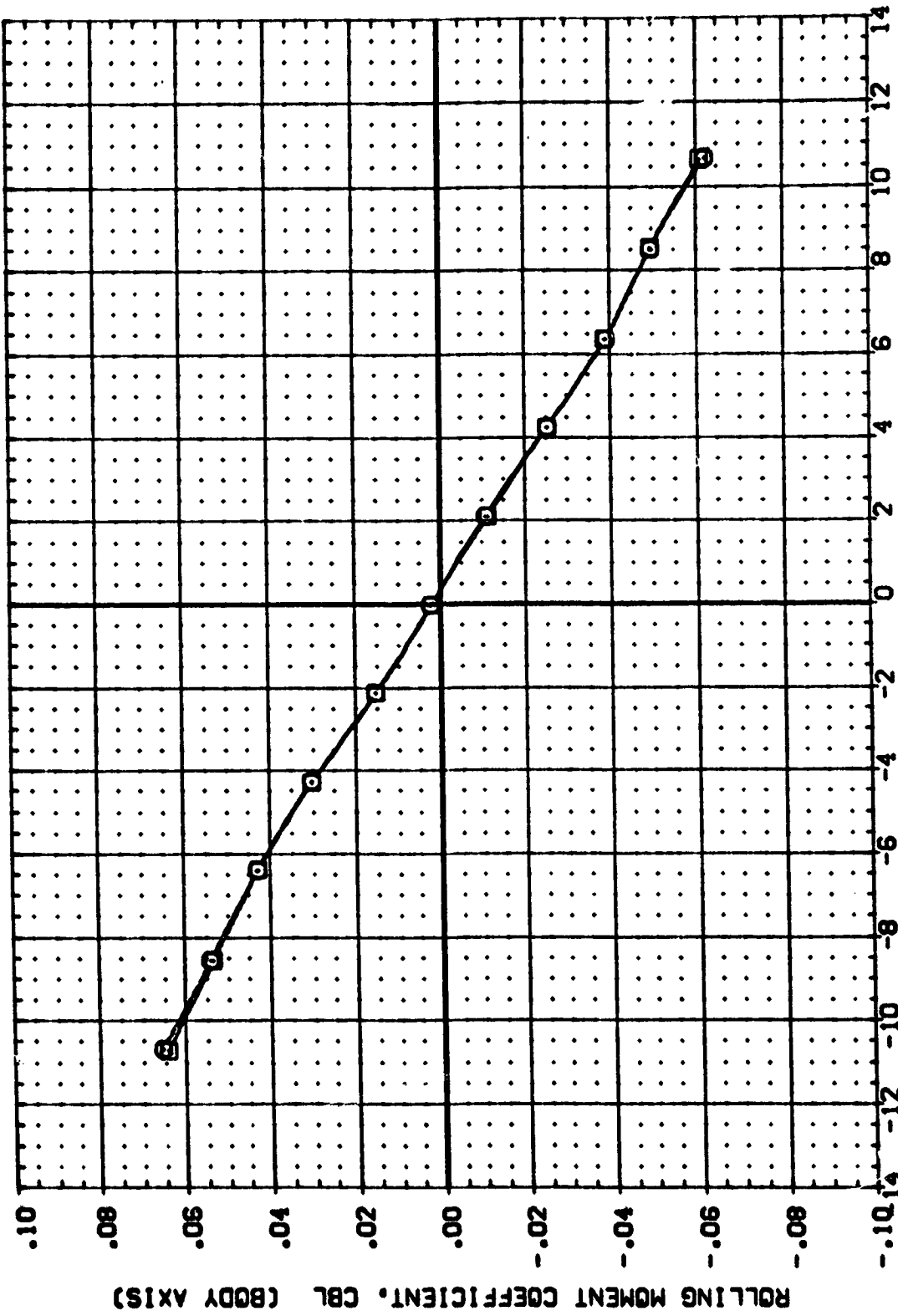
(A)MACH = .60



DATA SET SYNO. CONFIGURATION DESCRIPTION
 (807002) LUC 8 TPT 657 [A1] TIP1SIP201FR1
 (808003) LUC 8 TPT 657 [A1] TIP1SIP201

ALPHA RUDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2650.0000 SQ.FT.
 LREF 1250.0000 INCHES
 BREF 1250.0000 INCHES
 XREF 976.0000 INCHES
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 ZREF 400.0000 INCHES
 SCALE .0150



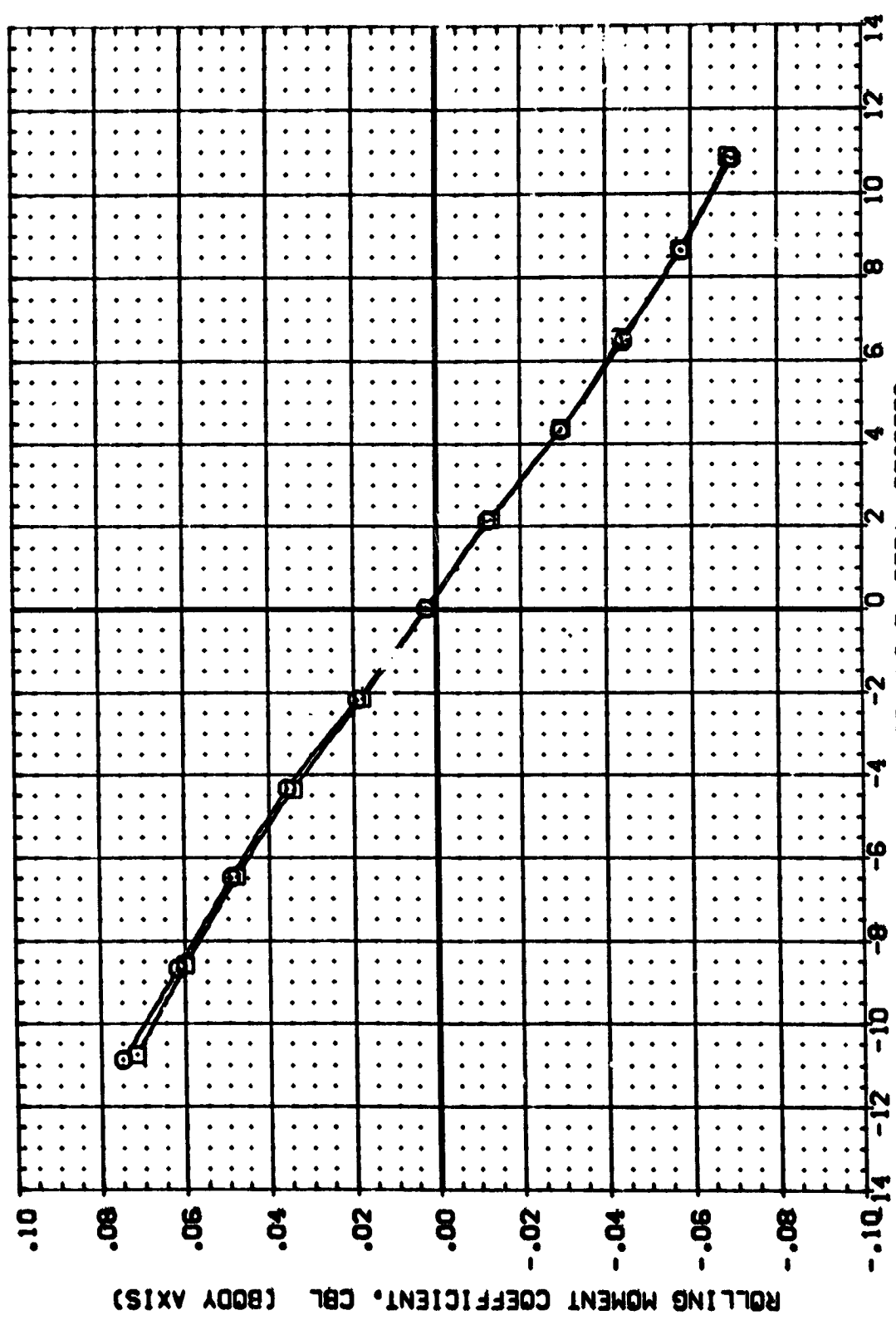
EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

(B)MACH = .80

REFERENCE INFORMATION
 SREF 2650.0000 50.000
 LREF 1250.0000 10.000
 BREF 1250.0000 10.000
 XREF 578.0000 1.000
 YREF 400.0000 10.000
 ZREF 400.0000 10.000
 SCALE .0150 SCALE

ALPHA RUDDER
 .000 .000
 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (500002) [] LAC 8 TPT 657 1A1 T1P1S1P201FRI
 (500003) [] LAC 8 TPT 657 1A1 T1P1S1P201



EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

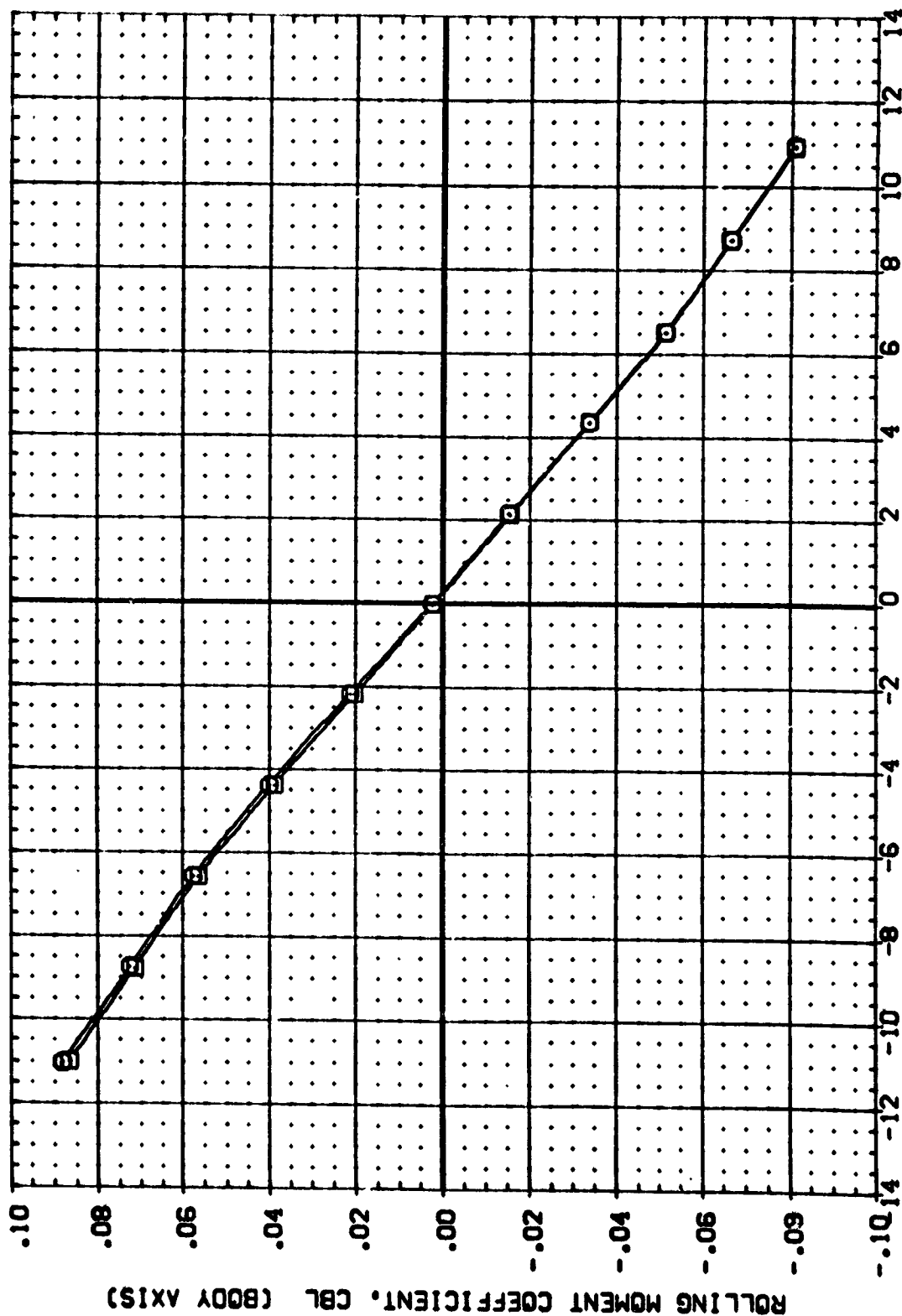
(C)MACH = .90



DATA SET SYMB. CONFIGURATION DESCRIPTION
 (B08002) LRC & TPT 657 1A1 TIP15IP201FRI
 (B08003) LRC & TPT 657 1A1 TIP15IP201

ALPHA RUDDER
 .000 .000

REFERENCE INFORMATION
 SIZE 2650.0000 SQ.FT.
 LREF 1250.3000 IN-ES
 BREF 1250.3000 IN-ES
 XMRP 976.0000 IN-ES
 YMRP .0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 SCALE



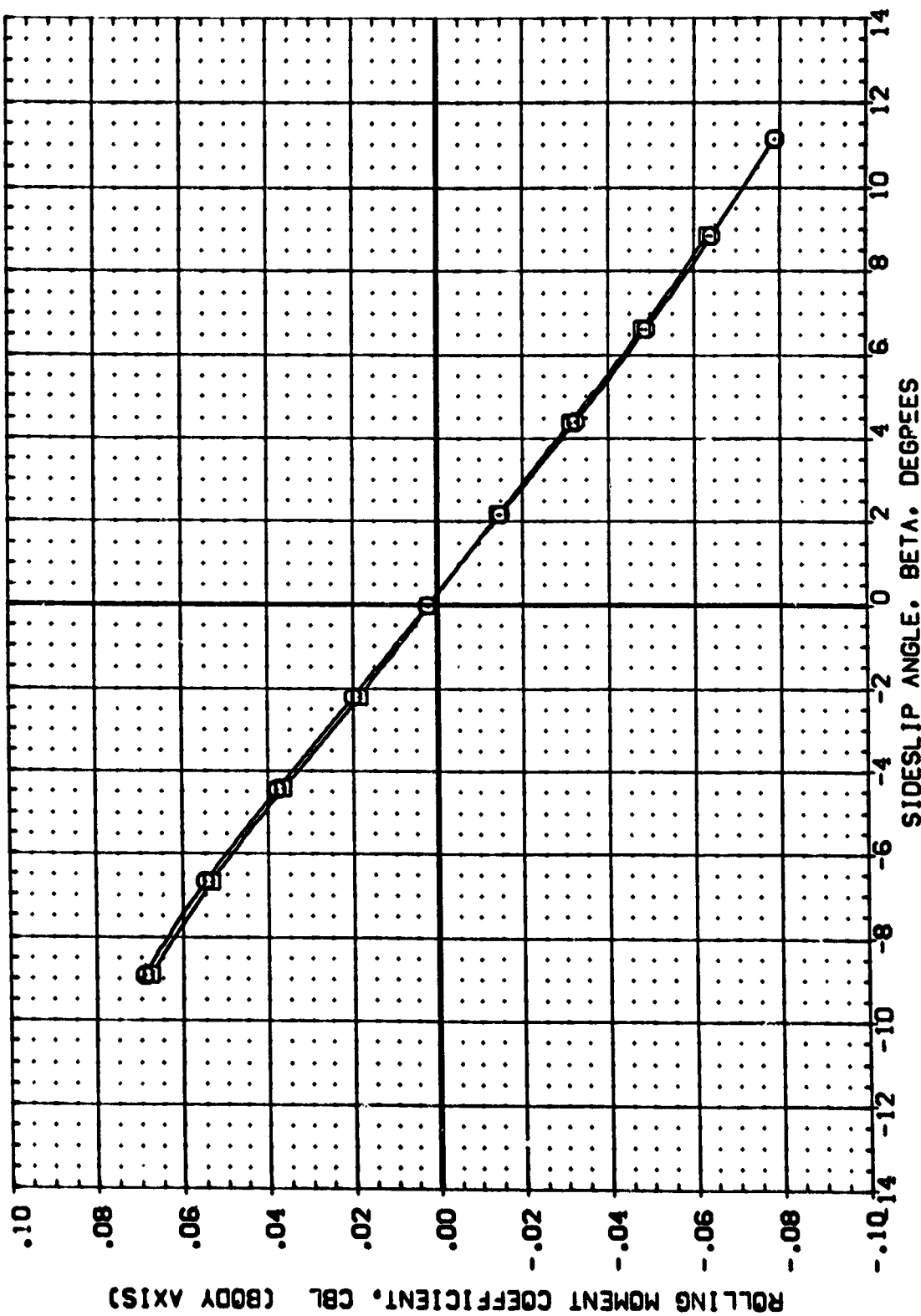
EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

(O)MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (808003) LRC 8 TPT 657 [A1] TIPISIP201

ALPHA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 50. FT.
 LREF 1290.0000 IN-ES
 BREF 1290.0000 IN-ES
 YMRP 976.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 IN-ES



EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

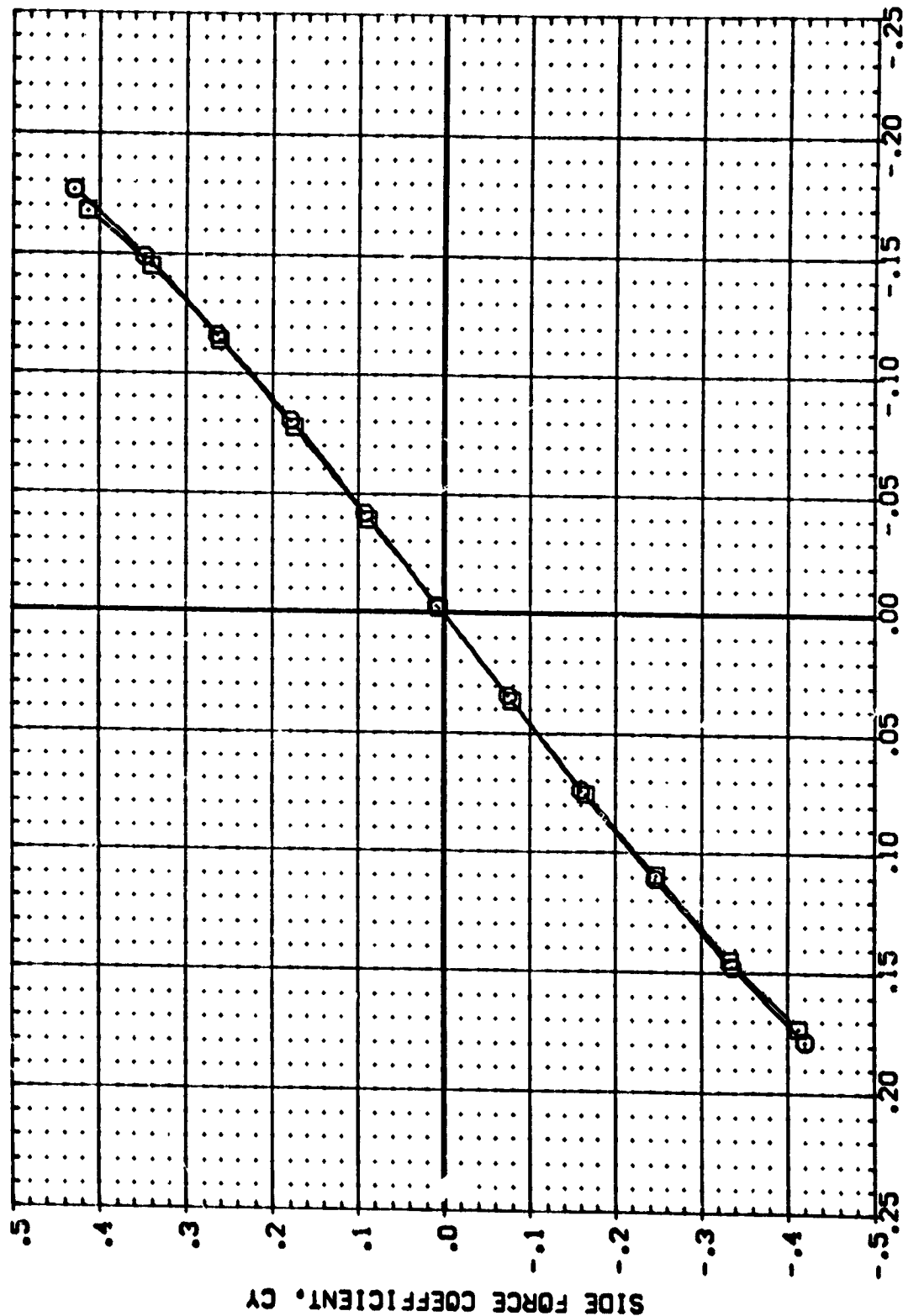
(E)MACH = 1.20



DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (808003) LRC 8 TPT 657 [A4] TIPISIP20

ALPHA RUDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2650.0000 SQ.FT.
 LREF 1250.3000 INO-ES
 BREF 1250.3000 INO-ES
 XTRP 576.0000 INO-ES
 YTRP 400.0000 INO-ES
 ZTRP 400.0000 INO-ES
 SCALE .0150 SCALE



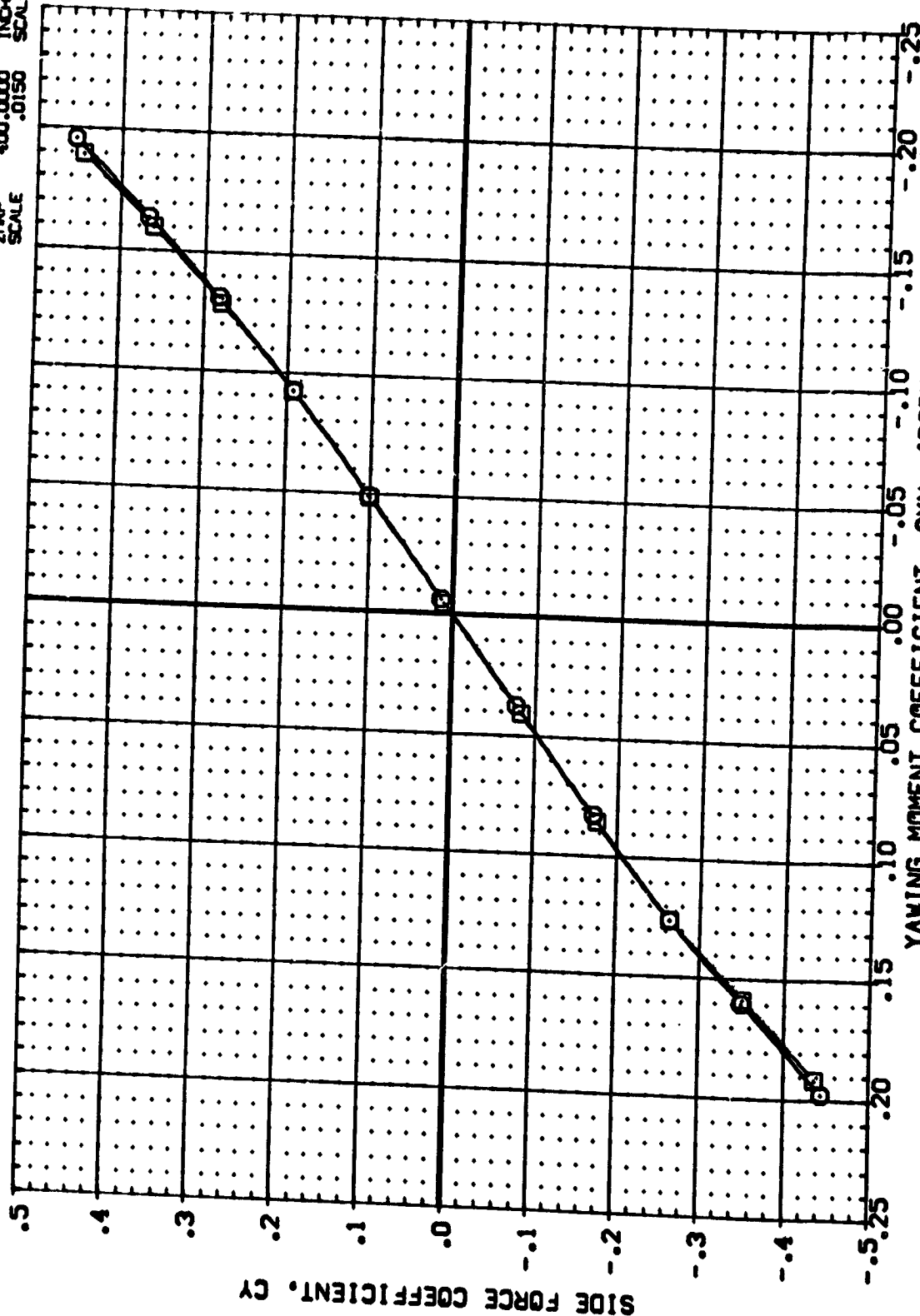
EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

(A)MACH = .60

DATA SET 51403. CONFIGURATION DESCRIPTION
 (808002) LRC 8 TPT 657 [A1] TIP[SIP20]FRI
 (808003) LRC 8 TPT 657 [A1] TIP[SIP20]

ALPHA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2630.0000 SQ.FT.
 LREF 1250.3000 INCHES
 BREF 1250.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



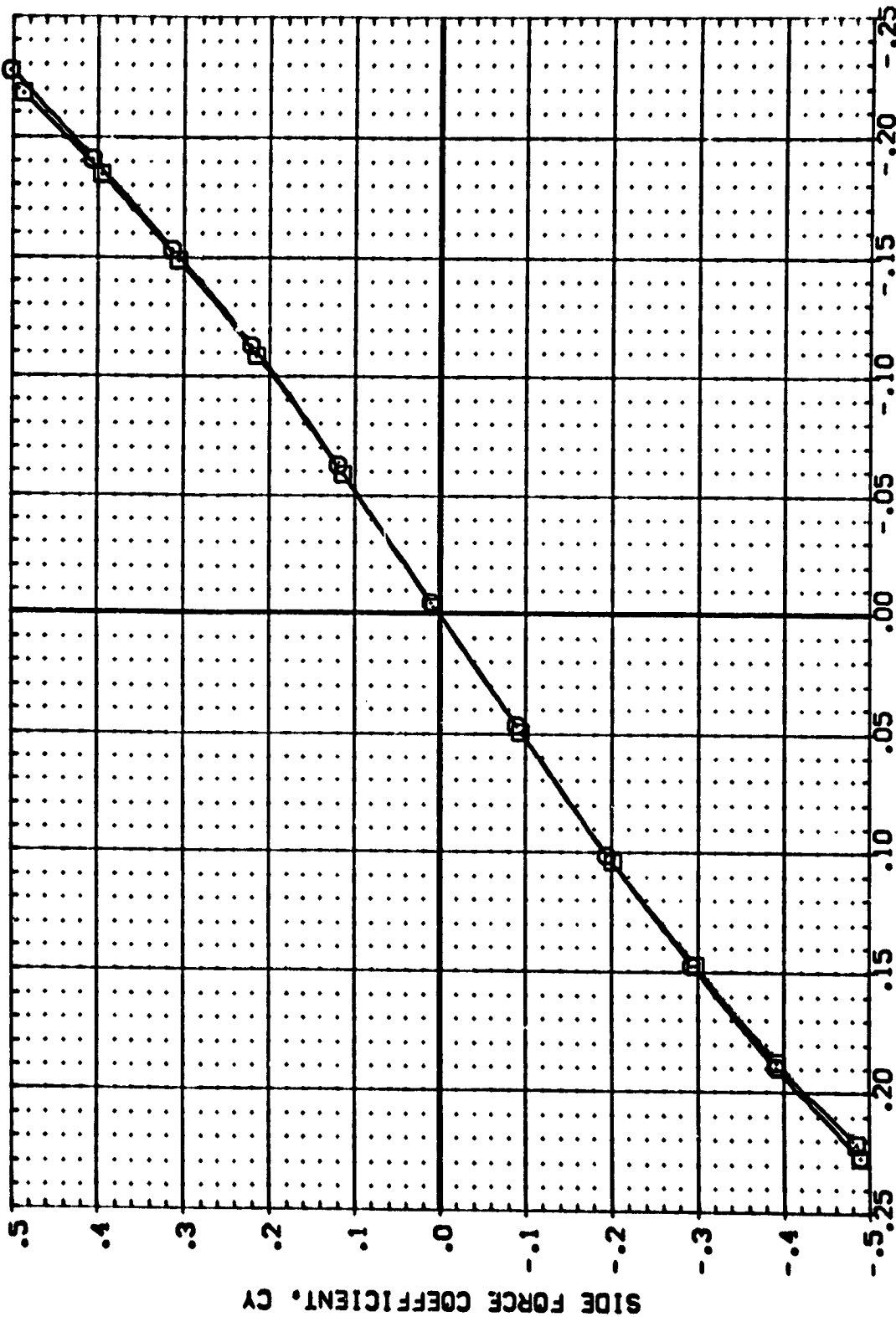
EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS
 (B)MACH = .80



DATA SET SYMBOL: [808002] [808003] CONFIGURATION DESCRIPTION: LRC & TPT 667 1A1 TIPSIP201FRI LRC & TPT 667 1A1 TIPSIP201

ALPHA: .000 .000 RUDDER: .000 .000

REFERENCE INFORMATION:
SREF: 2630.0000 SO.FT.:
LREF: 1250.3000 INO-ES
BREF: 1250.3000 INO-ES
XMRP: 976.0000 INO-ES
YMRP: .0000 INO-ES
ZMRP: 400.0000 INO-ES
SCALE: .0150 SCALE



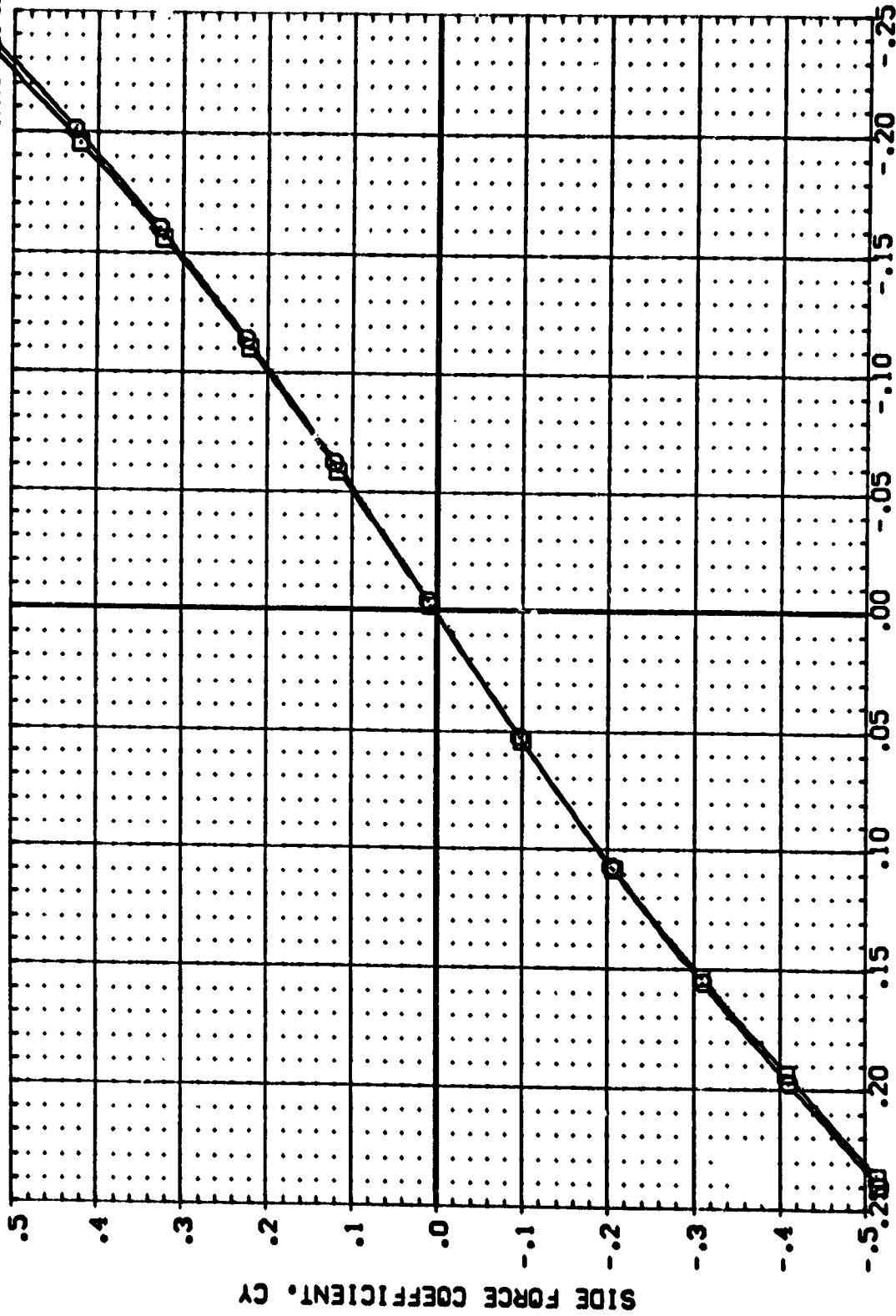
EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

(C)MACH = .90

DATA SET SYMBOL: [808002] [808003] LRC @ TPT 657 [A4] LRC @ TPT 657 [A4] TTPIS[P20] TTPIS[P20]

ALPHA: .000
RUDDER: .000

REFERENCE INFORMATION
SREF: 2630.0000 50.0 FT.
LREF: 1230.3000 IN-ES
BREF: 1230.3000 IN-ES
XREF: 976.0000 IN-ES
YREF: 400.0000 IN-ES
ZREF: 400.0000 IN-ES
SCALE: .0150



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)
EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

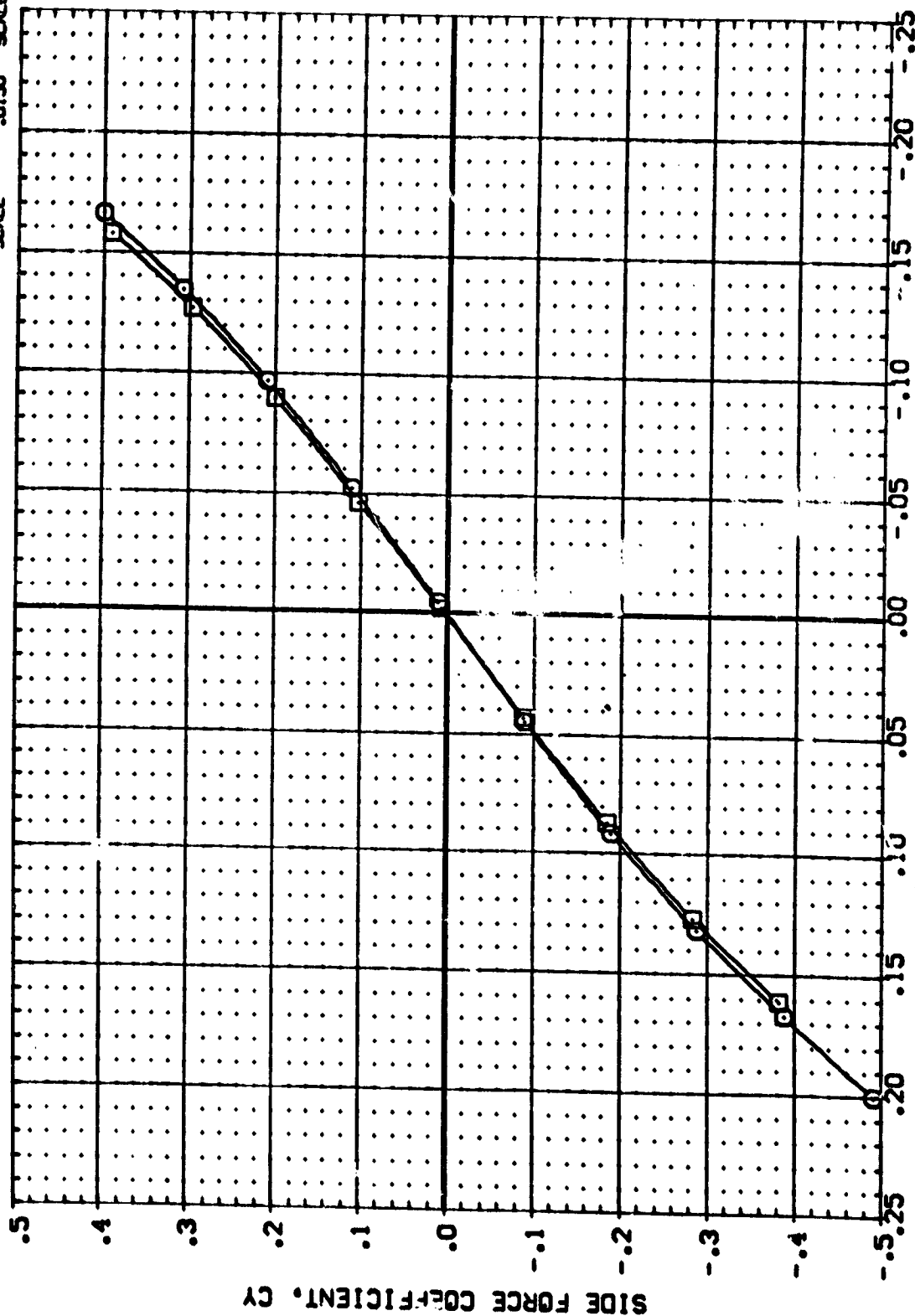
(O)MACH = .98



DATA SET SYMB. CONFIGURATION DESCRIPTION
 (B0002) LRC @ TPT 657 [A1] TIP[SIP20]FM1
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ALPHA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2880.0000 SQ.FT.
 LREF 1250.0000 INCHES
 BREF 1250.0000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



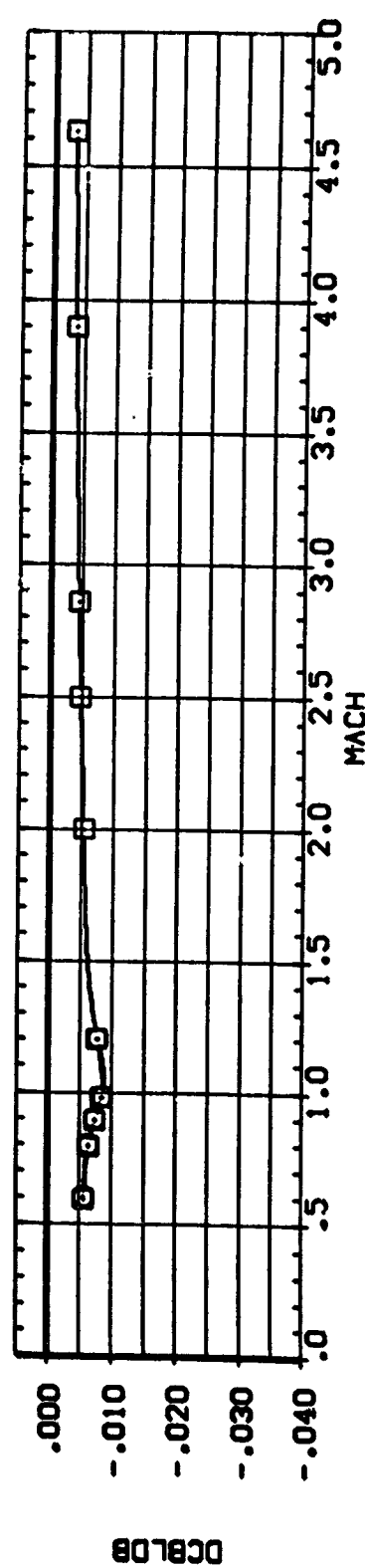
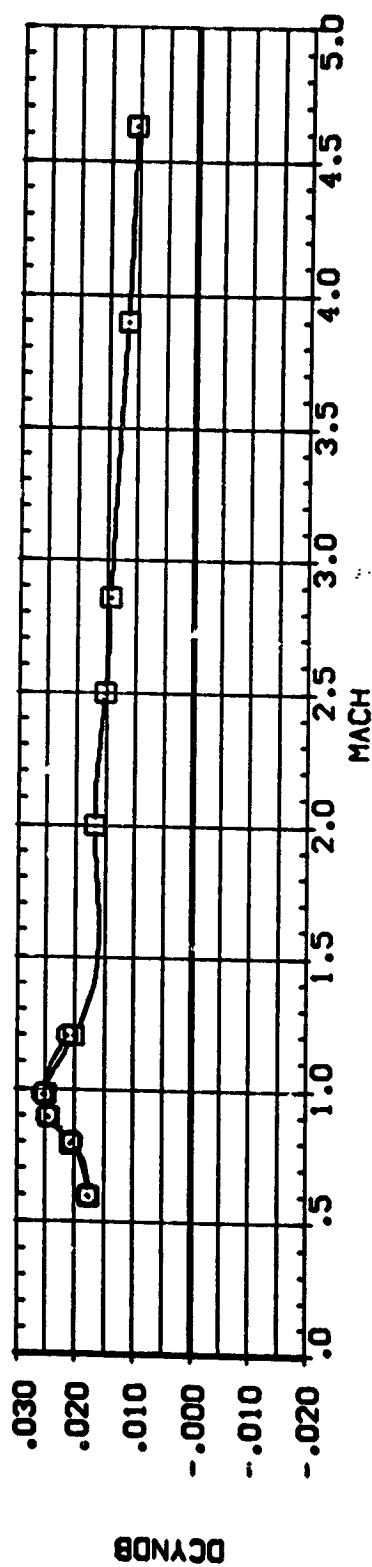
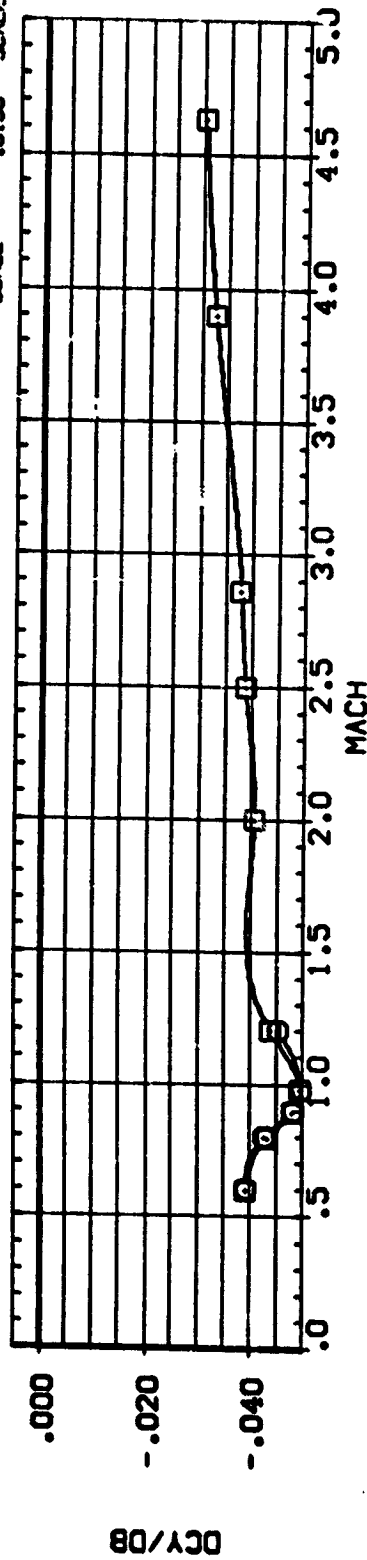
EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS
 YAWING MOMENT COEFFICIENT, C_{yn} (BODY AXIS)

(E)MACH = 1.20

DATA SET SYMBOL: (808002) (608003) LRC 8 TPT 667 (A4) TIP1(S)P201FR1 LARC TESTS (A4) NO (M42A/B) TIP1(S)P201

ALPHA: .000 .000 RUDDER: .000 .000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 400.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150



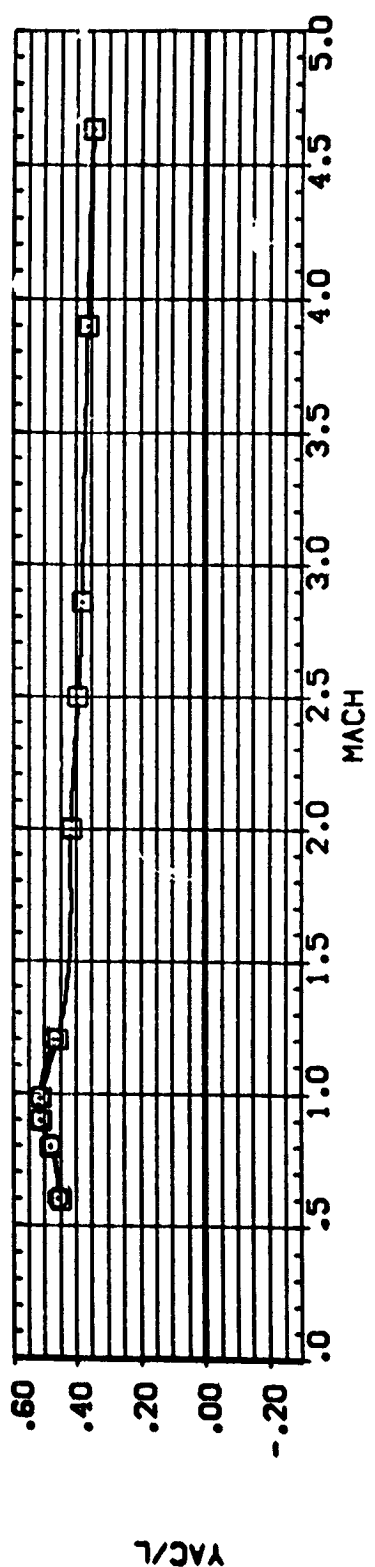
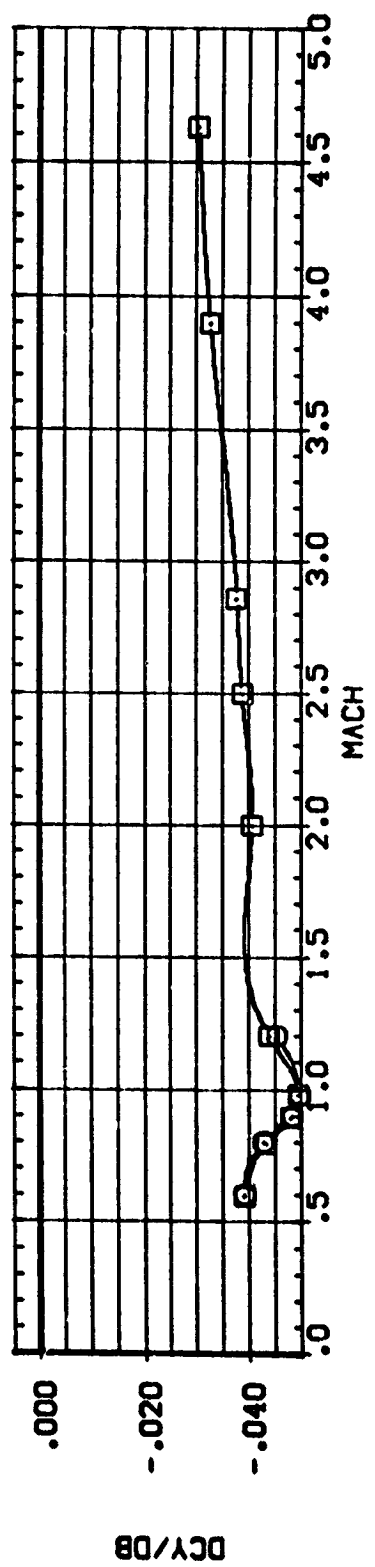
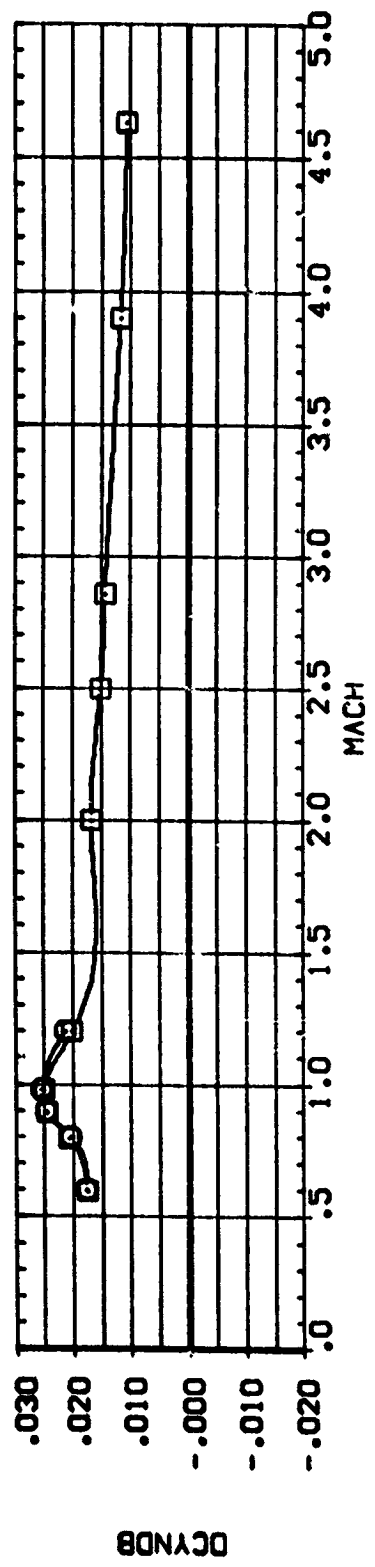
EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS



DATA SET SYMBOL: [808002] [608003] CONFIGURATION DESCRIPTION: LRC @ TPT 667 1A1 TIP1SIP201FR1 LARC TESTS 1A1 NO 1A2A/B TIP1SIP201

ALPHA: .000 .000 RUDER: .000 .000

REFERENCE INFORMATION:
 SREF: 2690.0000 50.FT.
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 XPRP: 576.0000 INCHES
 YPRP: 400.0000 INCHES
 ZPRP: 400.0000 INCHES
 SCALE: .0150 SCALE

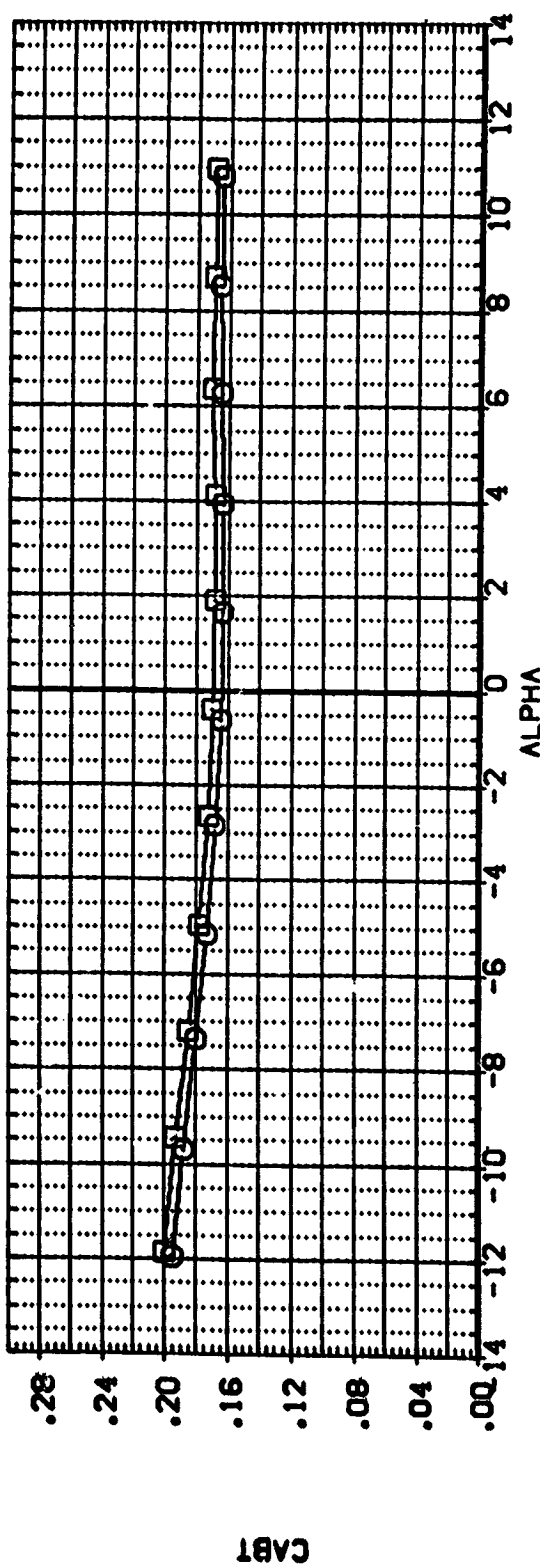
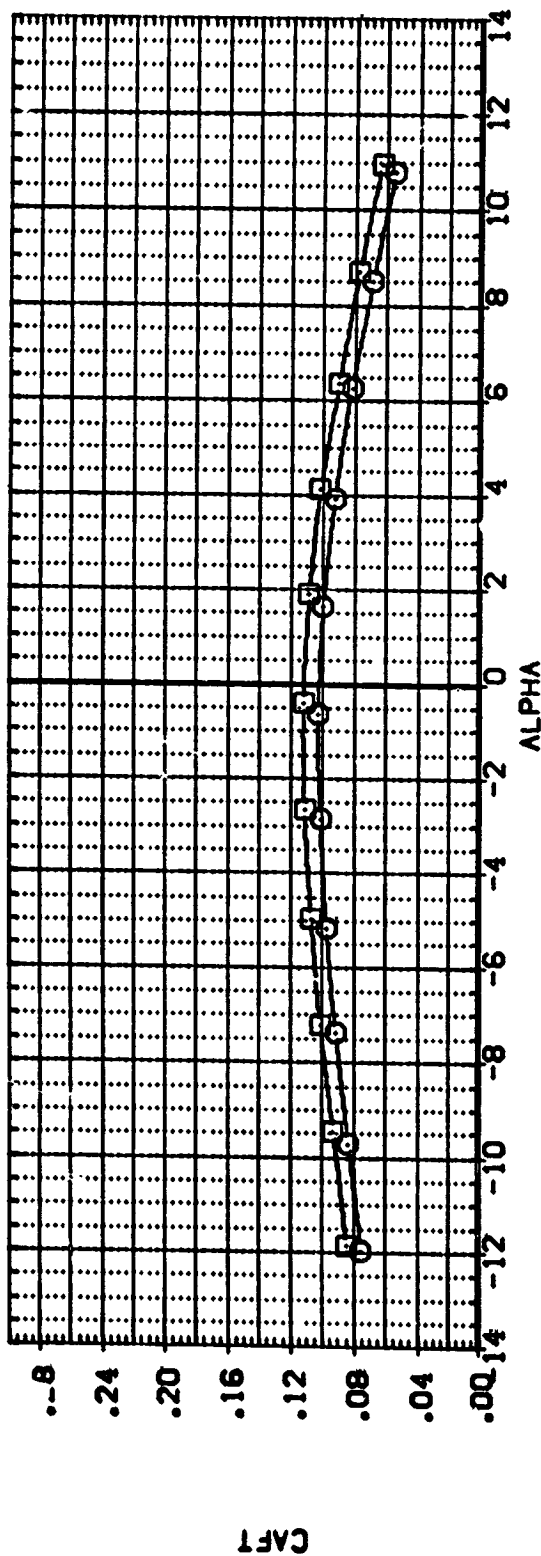


EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808016) ☐ LRC 8 TPT 657 1A1 T1P1S1P201
 (808017) ☐ LRC 8 TPT 657 1A1 T1P1S1P201

BETA RUDDER
 5.000 5.000
 5.000 -20.000

REFERENCE INFORMATION
 SREF 2650.0000 50.000
 LREF 1250.3000 10.000
 BREF 1250.3000 10.000
 XMRP 976.0000 10.000
 YMRP 400.0000 10.000
 ZMRP 400.0000 10.000
 SCALE .0150 SCALE



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

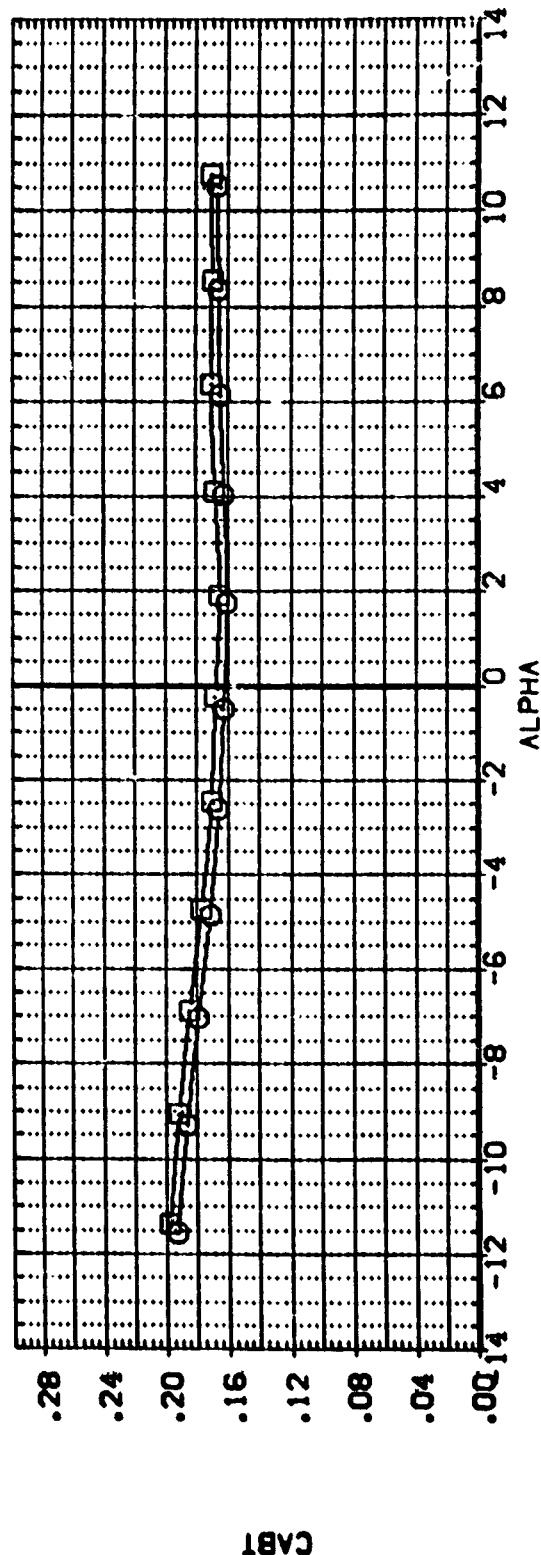
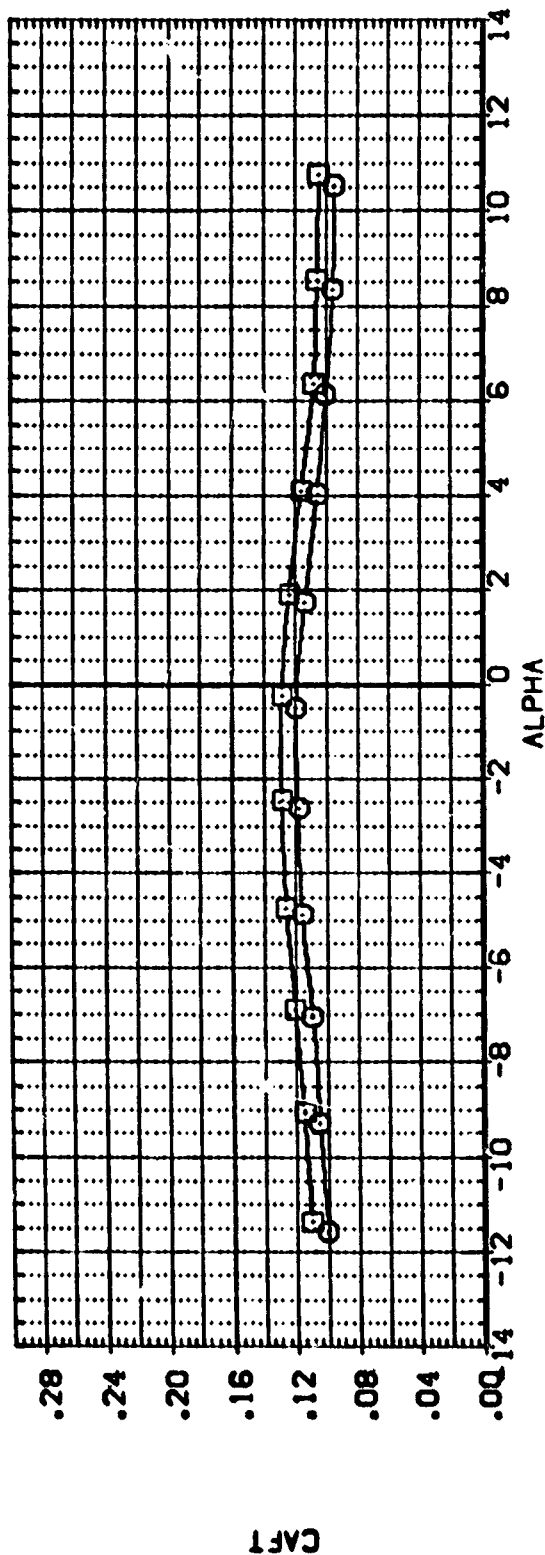
(A)MACH = .60



DATA SET SYMBOL: 8
 CONFIGURATION DESCRIPTION:
 LRC 8 TPT 657 1A11 T1P1S1P201
 LRC 8 TPT 657 1A11 T1P1S1P201


BETA RUDDER
 5.000 5.000
 5.000 -20.000

REFERENCE INFORMATION
 SREF 2630.0000 50.01
 LREF 1250.3000 IN-ES
 BREF 1250.3000 IN-ES
 XHREF 576.0000 IN-ES
 YHREF 400.0000 IN-ES
 ZHREF 400.0000 IN-ES
 SCALE .0150



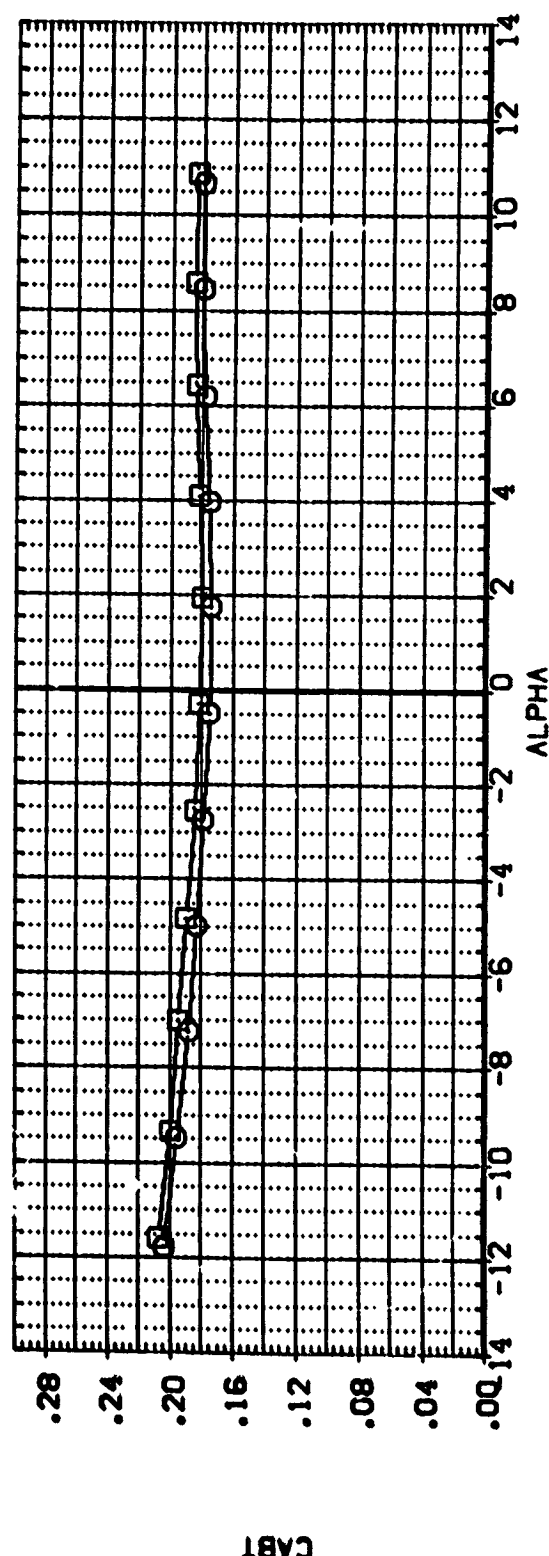
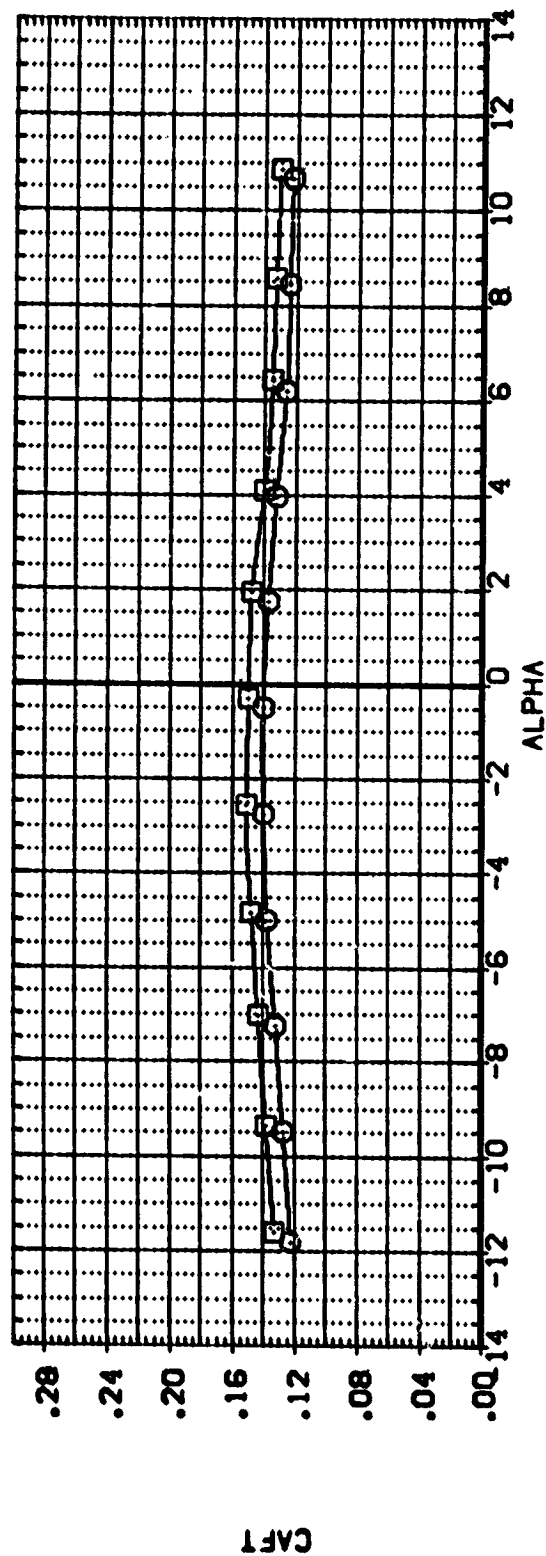
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(8)MACH = .80

DATA SET SYMBOL: (808016) (808017)  CONFIGURATION DESCRIPTION: LRC 6 TPT 657 [A1] TIP1SIP20 LRC 6 TPT 657 [A1] TIP1SIP20

BETA: 5.000 5.000 5.000 RUDDER: .000 -20.000

REFERENCE INFORMATION:
SREF 2690.0000 50. FT
LREF 1290.0000 INCHES
BREF 1290.0000 INCHES
XMRP 976.0000 INCHES
YMRP .0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

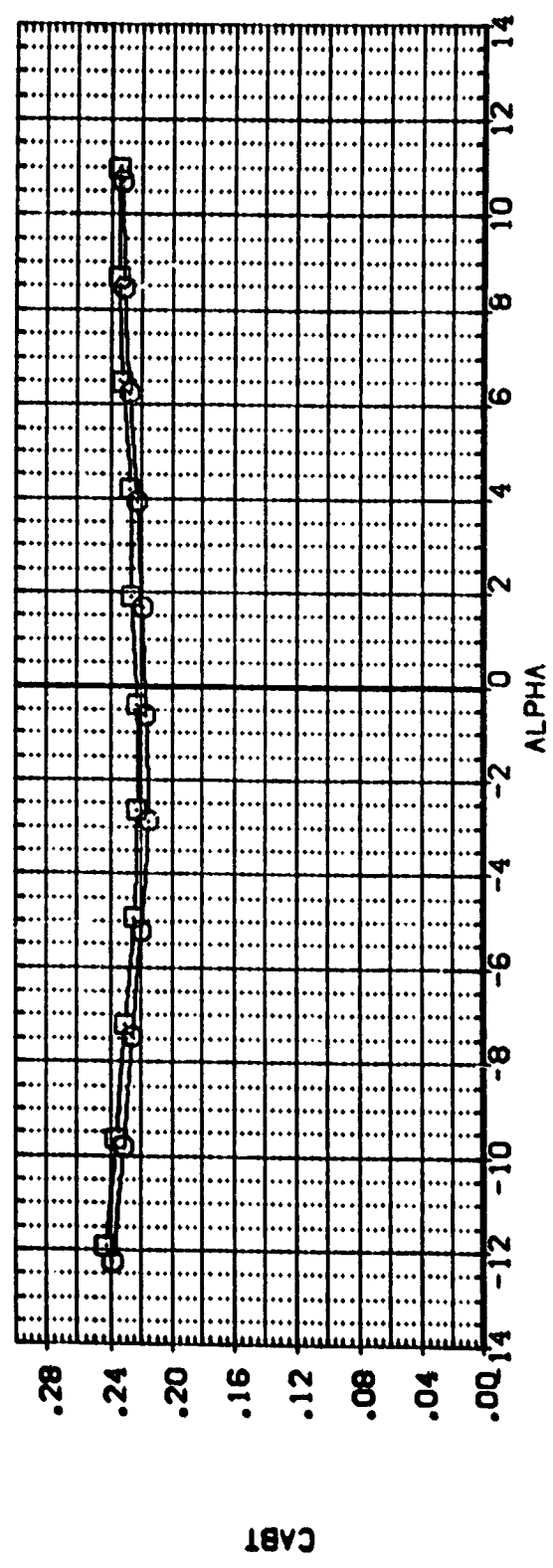
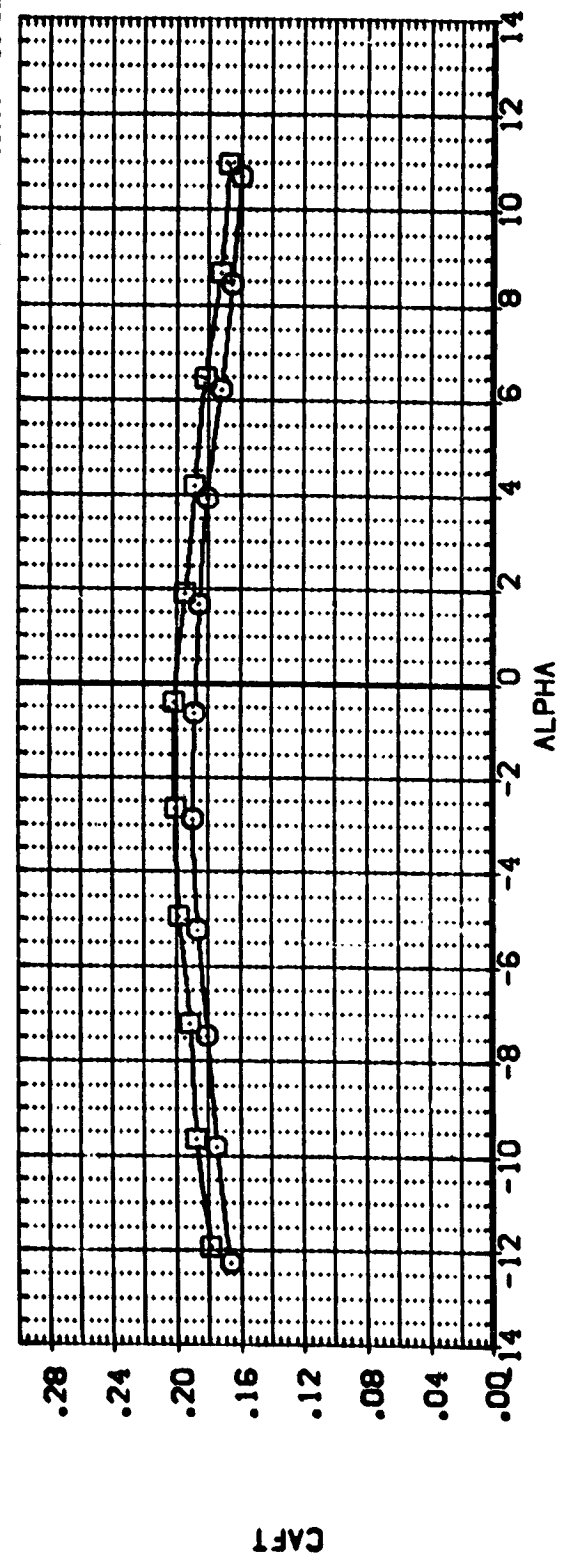
(C)MACH = .90



DATA SET 87:20L CONFIGURATION DESCRIPTION
 (808016) LRC 8 TPT 667 [A4] T1P1S1P201
 (808017) LRC 8 TPT 667 [A4] T1P1S1P201

BETA RUDDER
 5.000 5.000
 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 50. FT.
 LREF 1290.3000 IN-ES
 BREF 1290.3000 IN-ES
 XMRP 975.0000 IN-ES
 YMRP .0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 SCALE



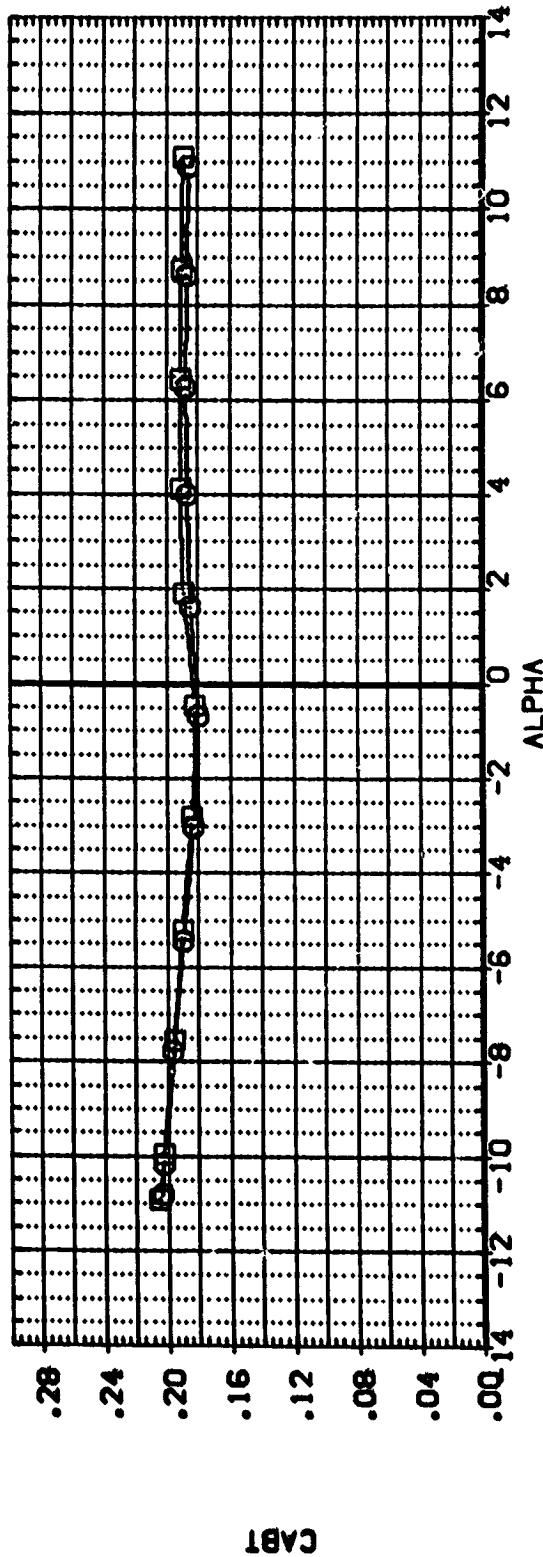
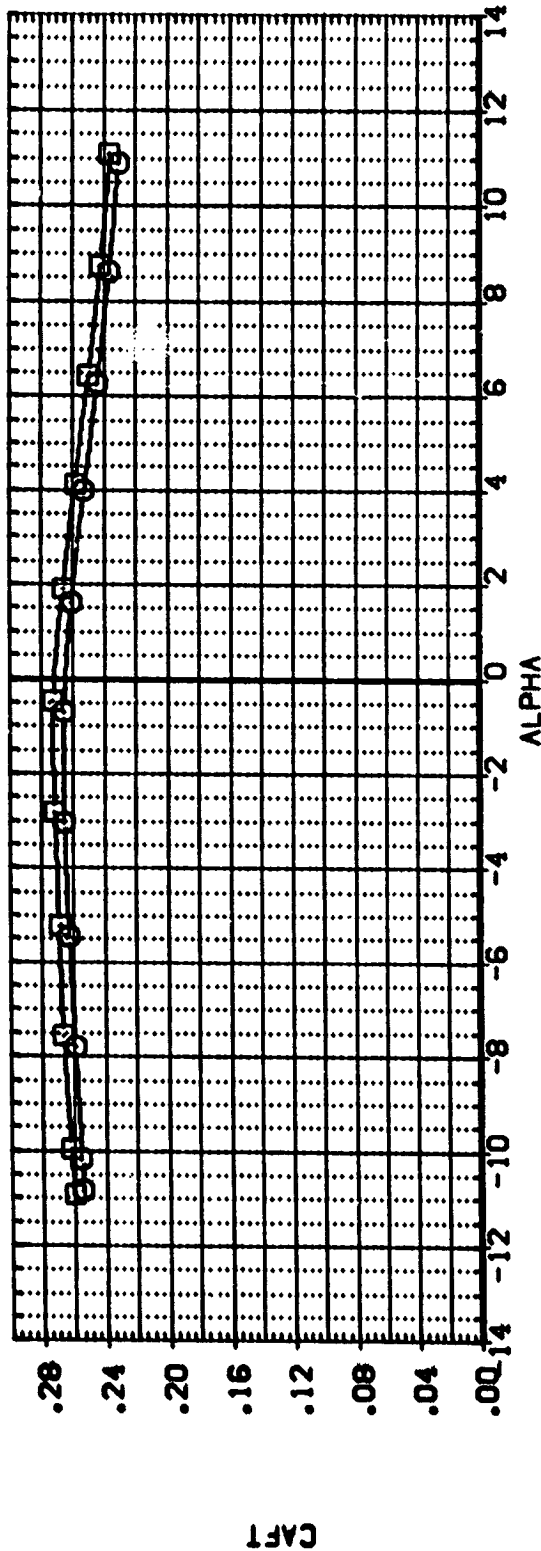
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(D)MACH = .98

DATA SET SYMBOL: []
 LRC @ TPT 667 [A4] T1P1S1P201
 LRC @ TPT 667 [A4] T1P1S1P201

BETA RUDDER
 5.000 .000
 5.000 -20.000

REFERENCE INFORMATION
 SREF 2630.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 576.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

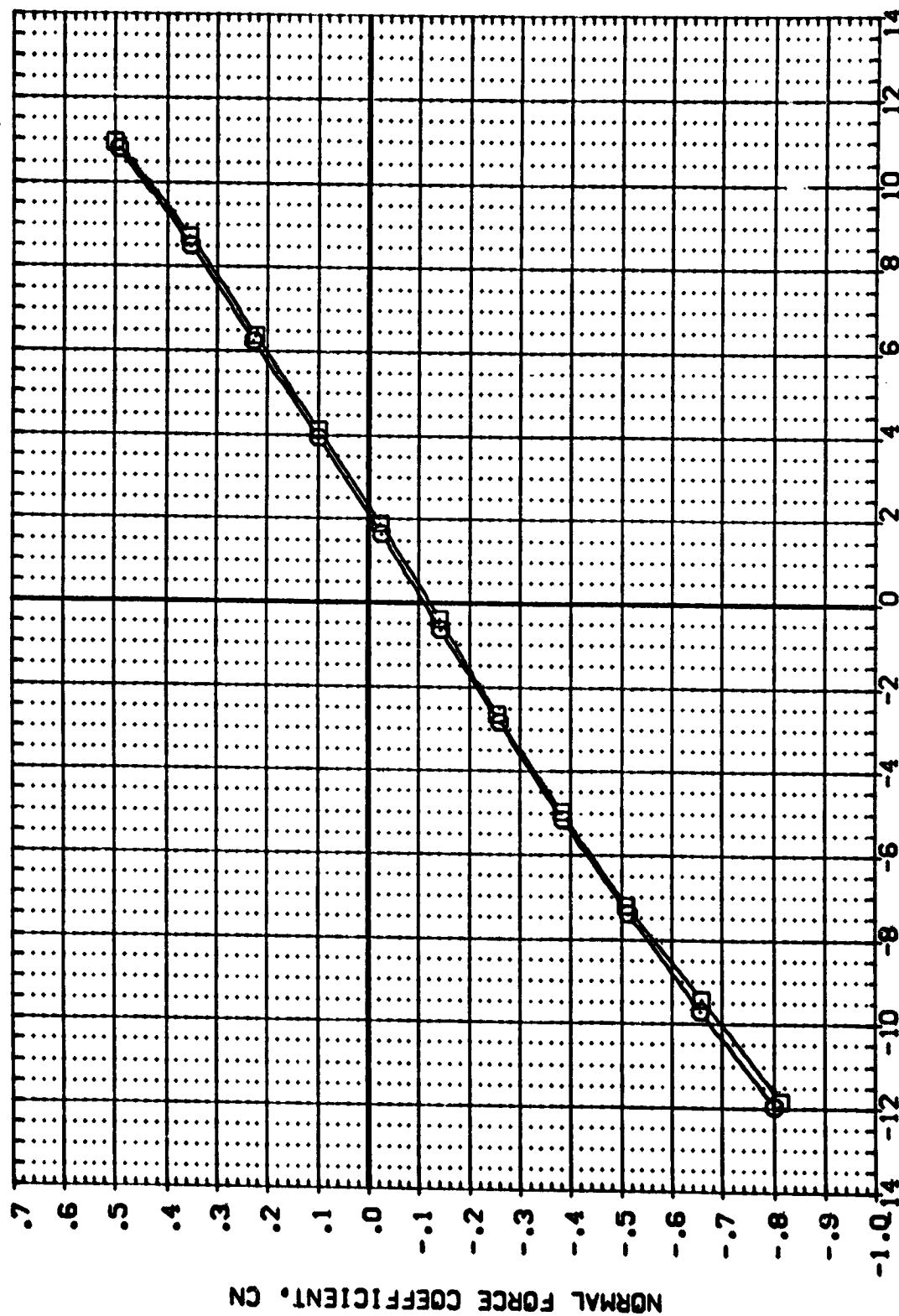
(C)MACH = 1.20



DATA SET SYMB. CONFIGURATION DESCRIPTION
 (B00016) 8 LAC 8 TPT 657 [A4] TIP[SIP20]
 (B00017) 8 LAC 8 TPT 657 [A4] TIP[SIP20]

BETA RUDDER
 5.000 5.000
 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



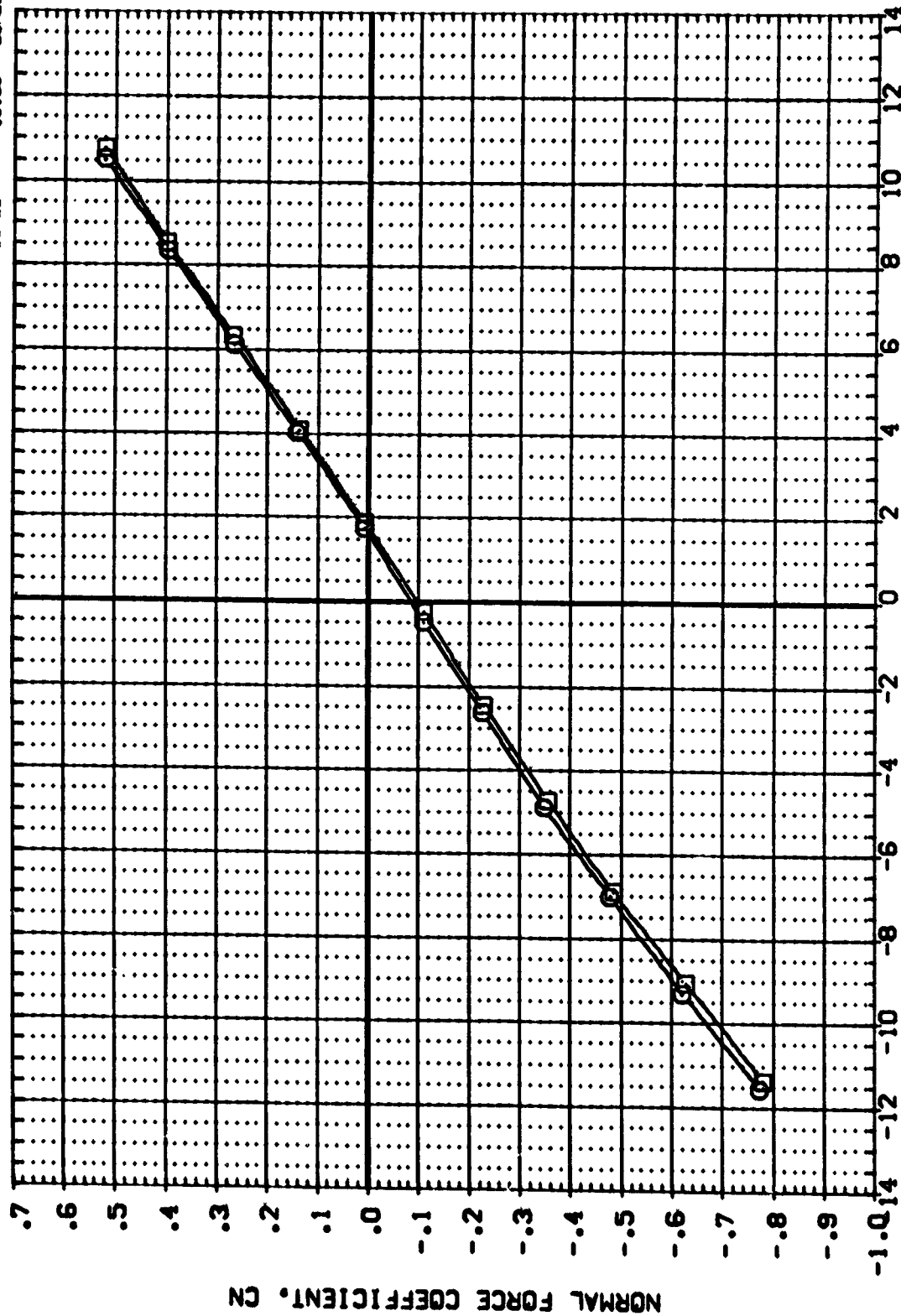
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B08016) LRC 8 TPT 557 [A4] TPI[5]P20
 (B08017) LRC 8 TPT 557 [A4] TPI[5]P20

BETA RUDDER
 5.000 .000
 5.000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 IN.-ES
 BREF 1250.3000 IN.-ES
 XMRP 976.0000 IN.-ES
 YMRP 400.0000 IN.-ES
 ZMRP 400.0000 IN.-ES
 SCALE .0150



ANGLE OF ATTACK, ALPHA, DEGREES
 EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

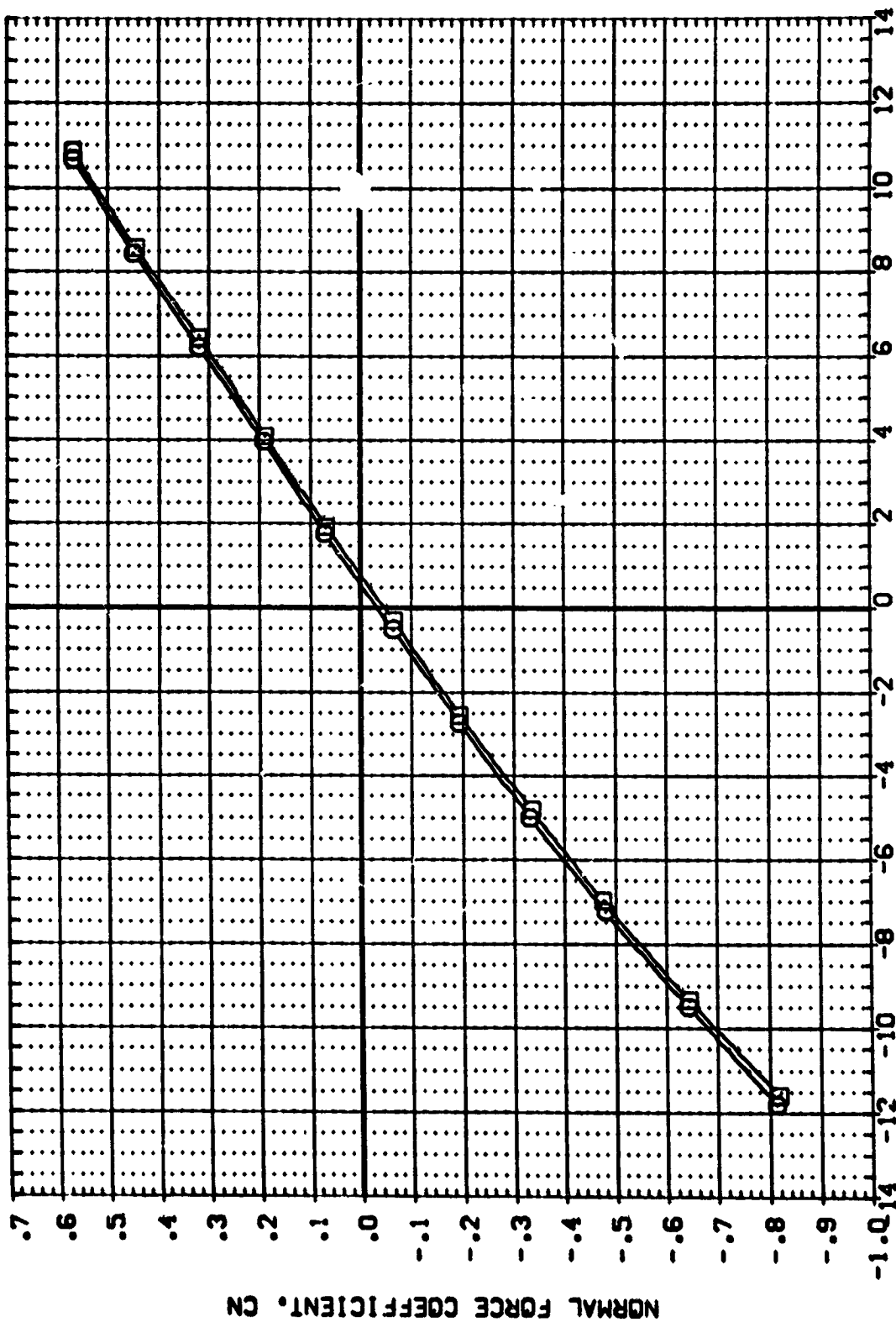
(B)MACH = .80



DATA SET SYMB. CONFIGURATION DESCRIPTION
 {800016} B LAC @ TPT 657 [A4] TIP[SIP201]
 {800017} B LAC @ TPT 657 [A4] TIP[SIP201]

BETA RUDDER
 5.000 .000
 5.000 -20.000

REFERENCE INFORMATION
 SREF 2650.0000 50.00 FT.
 LREF 1250.0000 INCHES
 BREF 1250.0000 INCHES
 XPRP 576.0000 INCHES
 YPRP 400.0000 INCHES
 ZPRP 400.0000 INCHES
 SCALE .0150

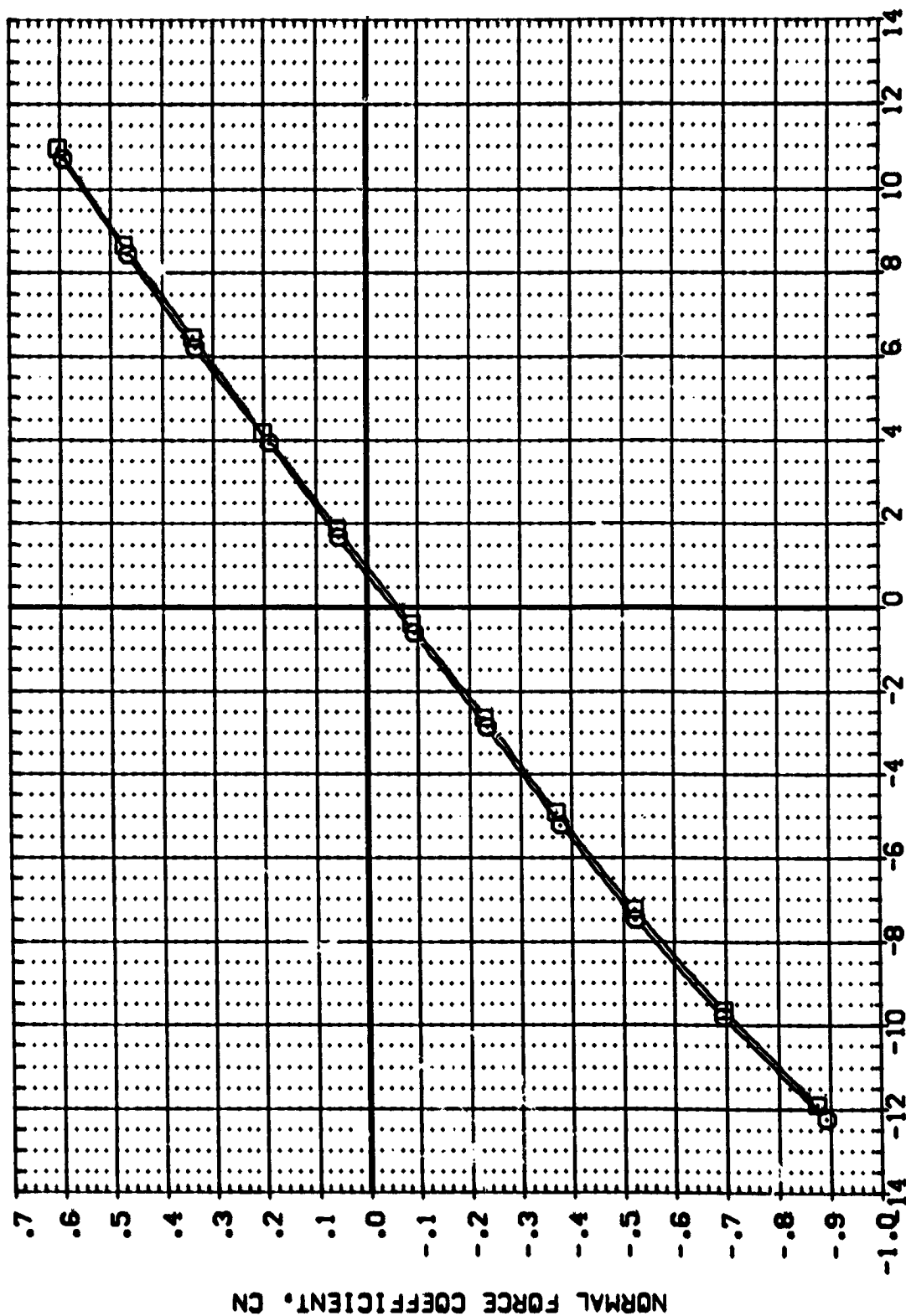


EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS
 (C)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 {808016} [] LRC 8 TPT 667 [A1] TPI[SIP20]
 {808017} [] LRC 8 TPT 667 [A1] TPI[SIP20]

BETA RUDDER
 5.000 .000
 5.000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 50.0 FT.
 LREF 1290.3000 IN-ES
 BREF 1290.3000 IN-ES
 XMRP 976.0000 IN-ES
 YMRP .0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(O)MACH = .98

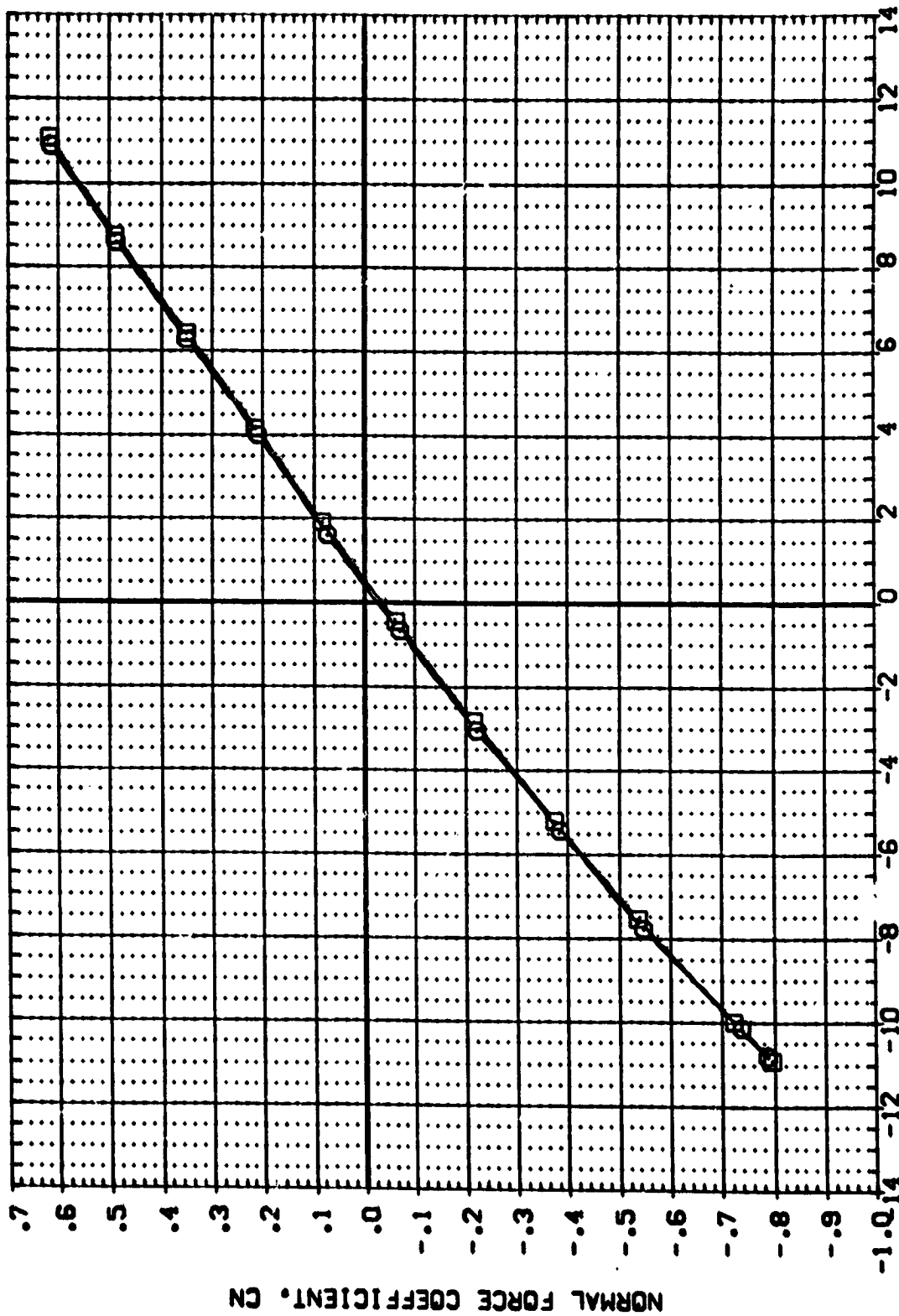
PAGE 144



DATA SET SYMBOL: 808016
 CONFIGURATION DESCRIPTION: LRC 8 TPT 667 I41 T1P1S1P201
 LRC 8 TPT 667 I41 T1P1S1P201

BETA: 5.000
 RUDDER: -20.000

REFERENCE INFORMATION:
 SREF: 2650.0000 50-FT.
 LREF: 1250.3000 IN-OES
 BREF: 1250.3000 IN-OES
 YHPP: 976.0000 IN-OES
 ZHPP: 400.0000 IN-OES
 SCALE: .0150 SCALE



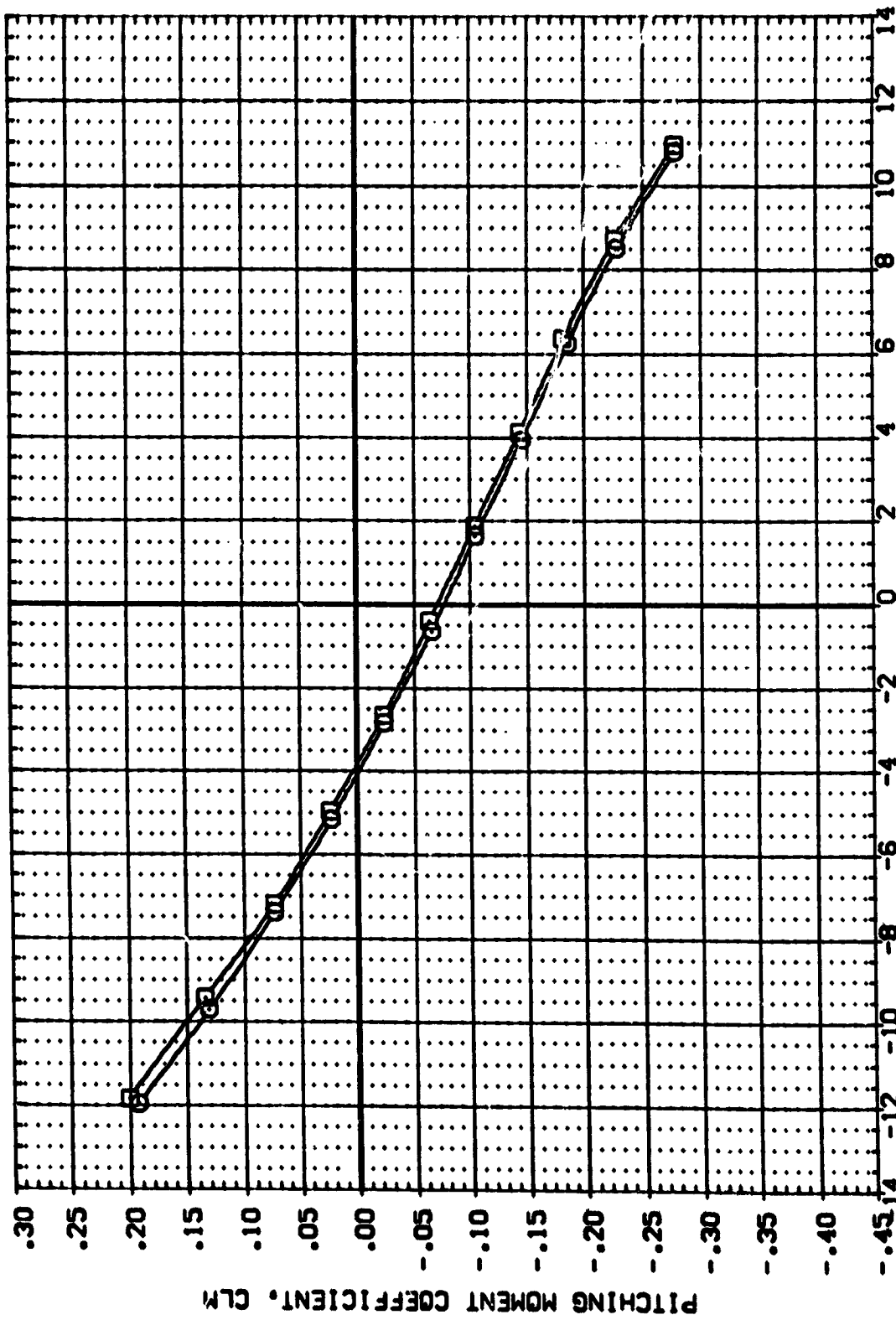
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808016) LRC 8 TPT 657 1A1 11P1S1P201
 (808017) LRC 8 TPT 657 1A1 11P1S1P201

BETA RUDDER
 5.000 5.000
 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 50.000
 LREF 1290.0000 10.000
 BREF 1290.0000 10.000
 YTRP 976.0000 10.000
 ZTRP 400.0000 10.000
 SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

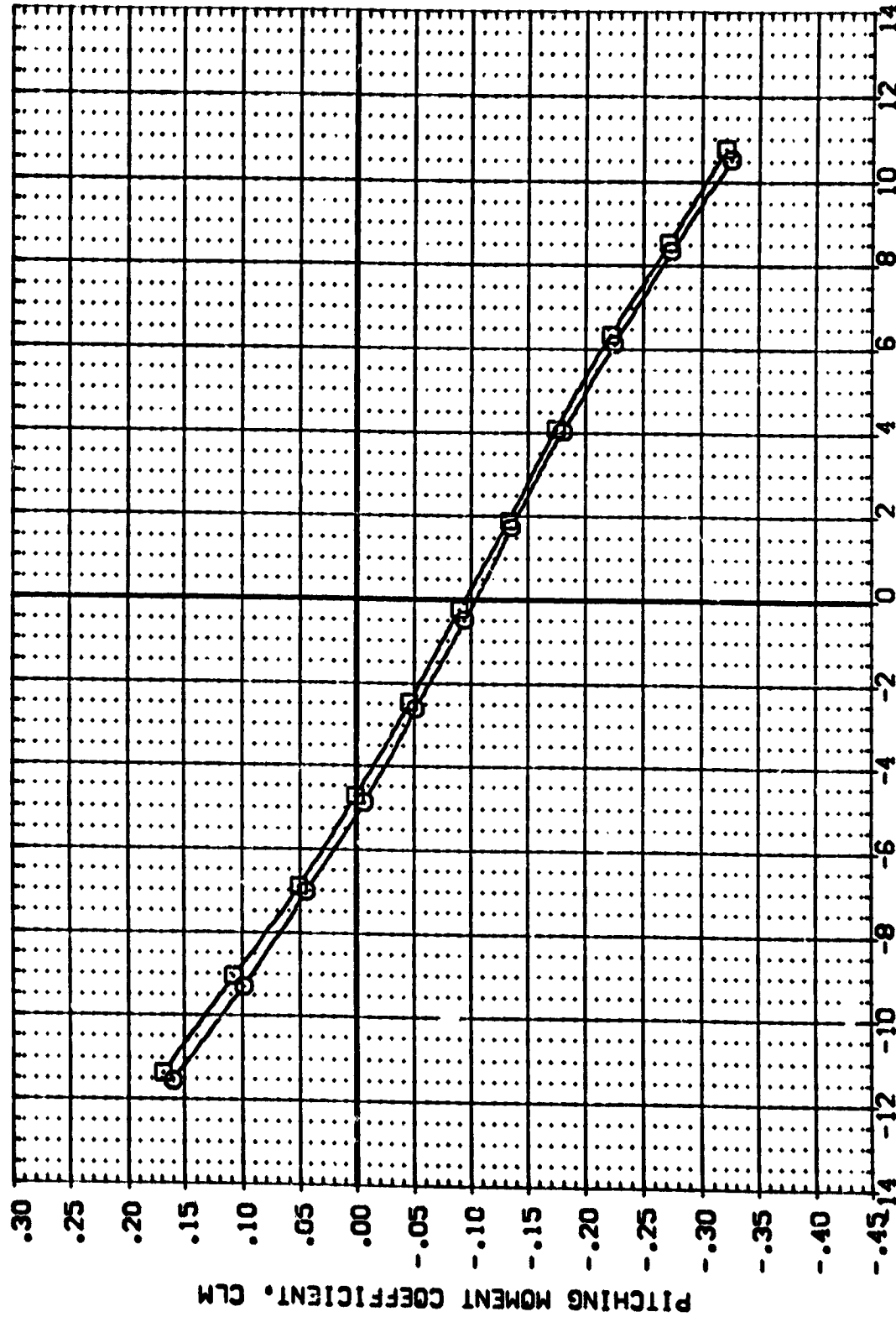
(A)MACH = .60



C. T. SET SYMBOL. CONF. ILLUSTRATION DESCRIPTION
 [800016] LRC 8 TPT 667 [A1] TIPISIP201
 [800017] LRC 8 TPT 667 [A1] TIPISIP201

BETA RUDDER
 5.000 5.000
 -20.000

REFERENCE INFORMATION
 SREF 2550.0000 50. FT.
 LREF 1250.0000 IN-ES
 BREF 1250.0000 IN-ES
 XMRP 976.0000 IN-ES
 YMRP 400.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150

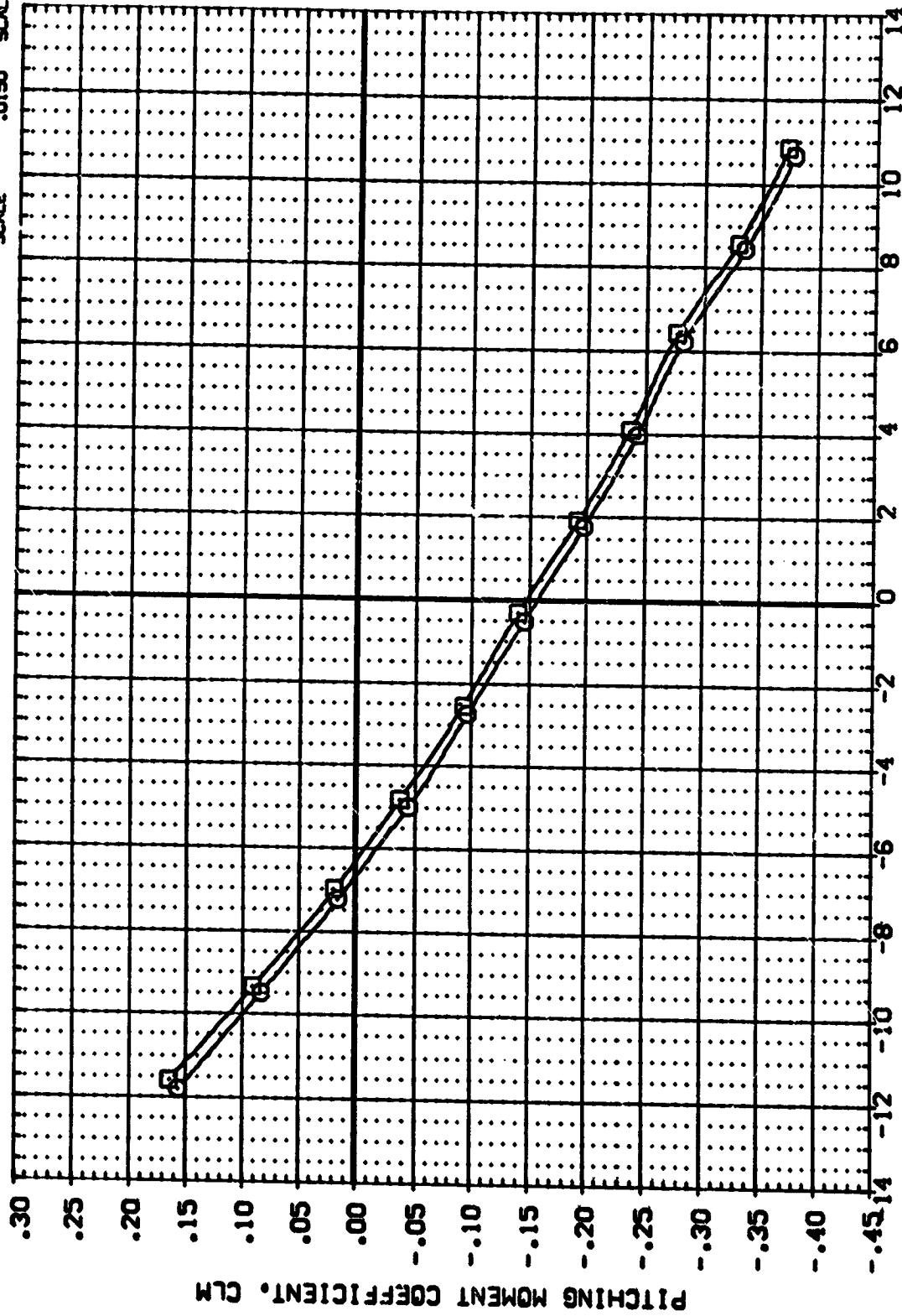


EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS
 (B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B20016) LRC 8 IPT 657 [A4] TIP1SIP201
 (B20017) LRC 8 IPT 657 [A4] TIP1SIP201

BETA RUDDER
 5.000 5.000
 -20.000

REFERENCE INFORMATION
 SREF 2680.0000 50.FT.
 LREF 1280.3000 IN-ES
 BREF 1280.3000 IN-ES
 XMRP 976.0000 IN-ES
 YMRP 400.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 SCALE



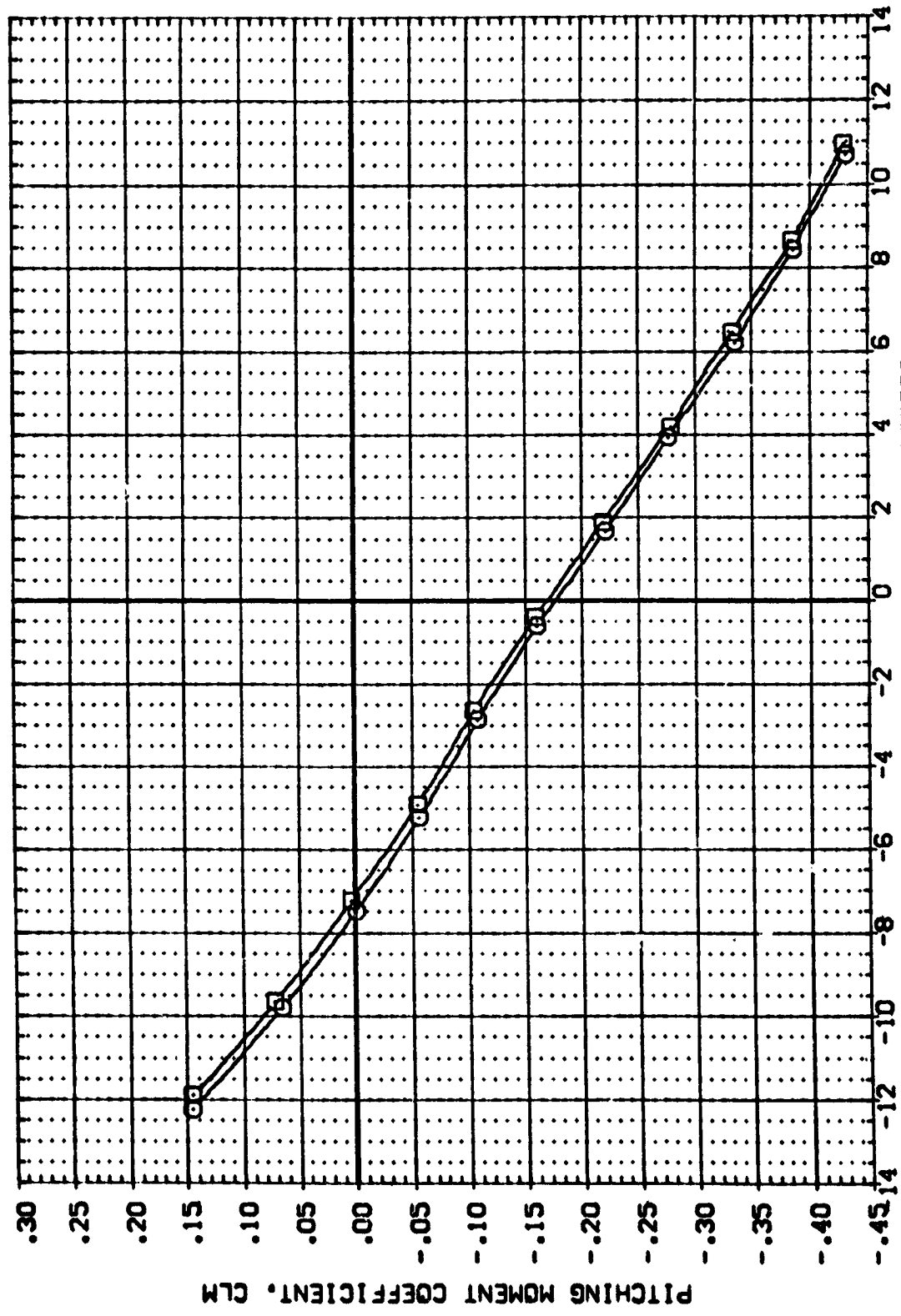
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS
 (C)MACH = .90



DATA SET SYMBOL: 808016
 CONFIGURATION: LRC 8 TPT 667 [A4] TIP [SIP201]
 DESCRIPTION: LRC 8 TPT 667 [A4] TIP [SIP201]

BETA: 5.000
 RUDDER: 5.000
 -20.000

REFERENCE INFORMATION:
 SREF: 2690.0000 50. FT.
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 XPRP: 976.0000 INCHES
 YPRP: 400.0000 INCHES
 ZPRP: 400.0000 INCHES
 SCALE: .0150



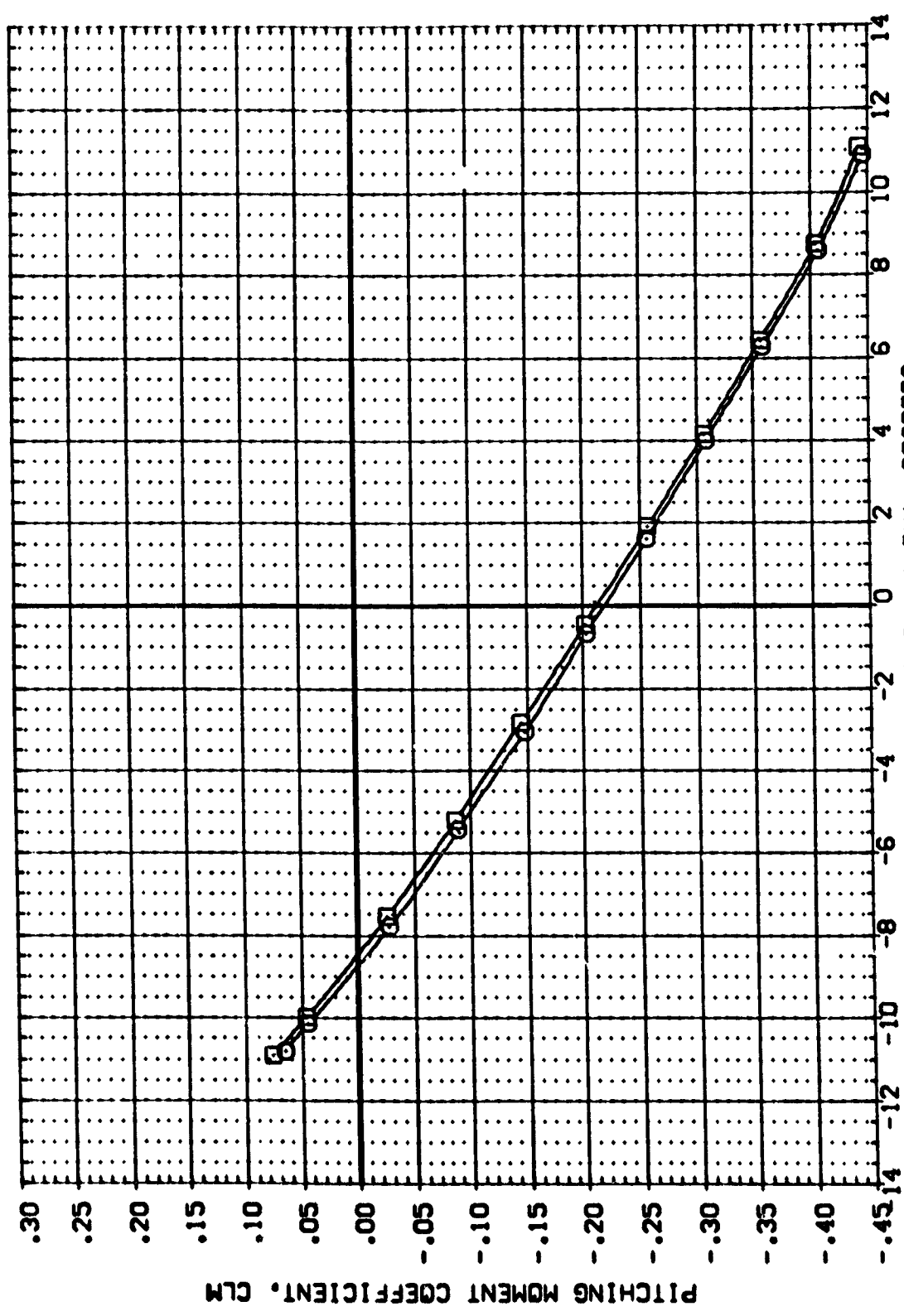
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(O)MACH = .98

REFERENCE INFORMATION
 SREF 2690.0000 50.00
 LREF 1250.0000 INCHES
 BREF 1250.0000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA RUDDER
 5.000 .000
 5.000 -20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 LRC 8 TPT 657 [A1] TIP[SIP20]
 LRC 8 TPT 657 [A1] TIP[SIP20]



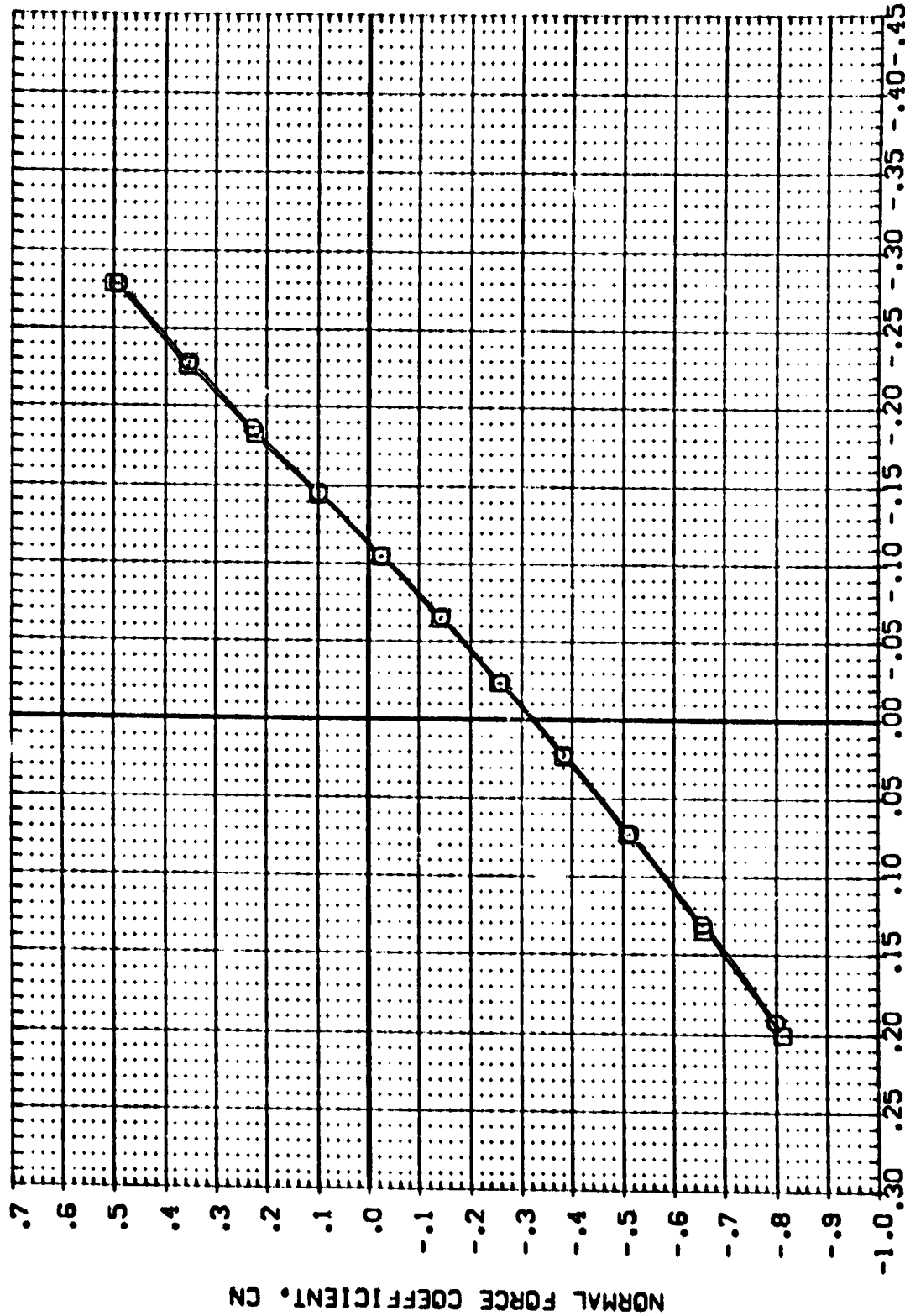
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS
 (C)MACH = 1.20



DATA SET SYMBOL: (808016) (808017)
 CONFIGURATION DESCRIPTION: LRC 8 TPT 667 [A1] TTP1SIP201
 LRC 8 TPT 667 [A1] TTP1SIP201

BETA RUDDER
 5.000
 5.000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 50. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



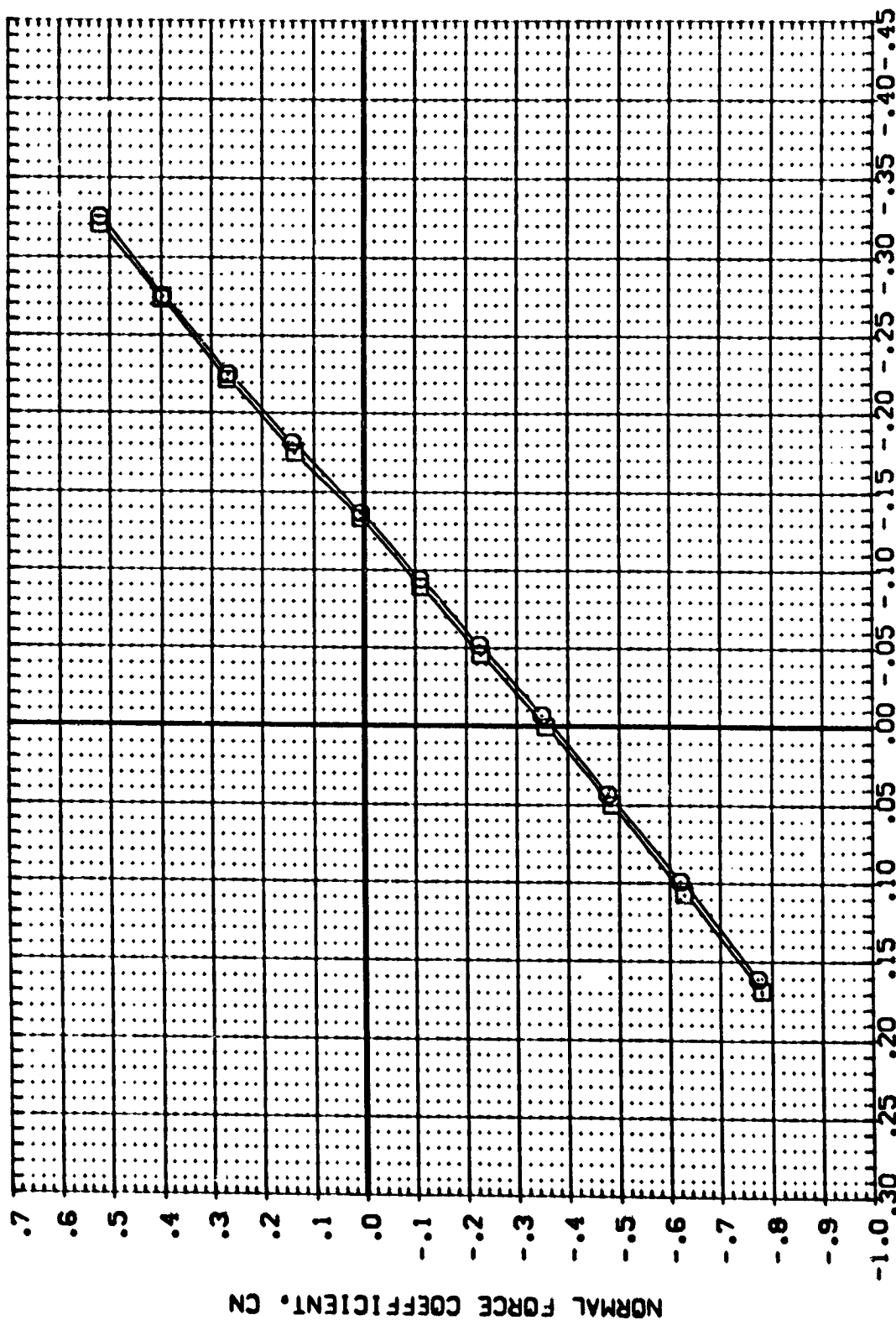
PITCHING MOMENT COEFFICIENT, CLM
 EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL: [808016] [808017] 8
 CONFIGURATION DESCRIPTION:
 LRC 8 TPT 657 [A4] TIP [SIP20]
 LRC 8 TPT 657 [A4] TIP [SIP20]

BETA RUDDER
 5.000 -20.000

REFERENCE INFORMATION
 SREF 2630.0000 50. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XPRP 576.0000 INCHES
 YPRP 400.0000 INCHES
 ZPRP 400.0000 INCHES
 SCALE .0150



PITCHING MOMENT COEFFICIENT, CLM

EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(B)MACH = .80

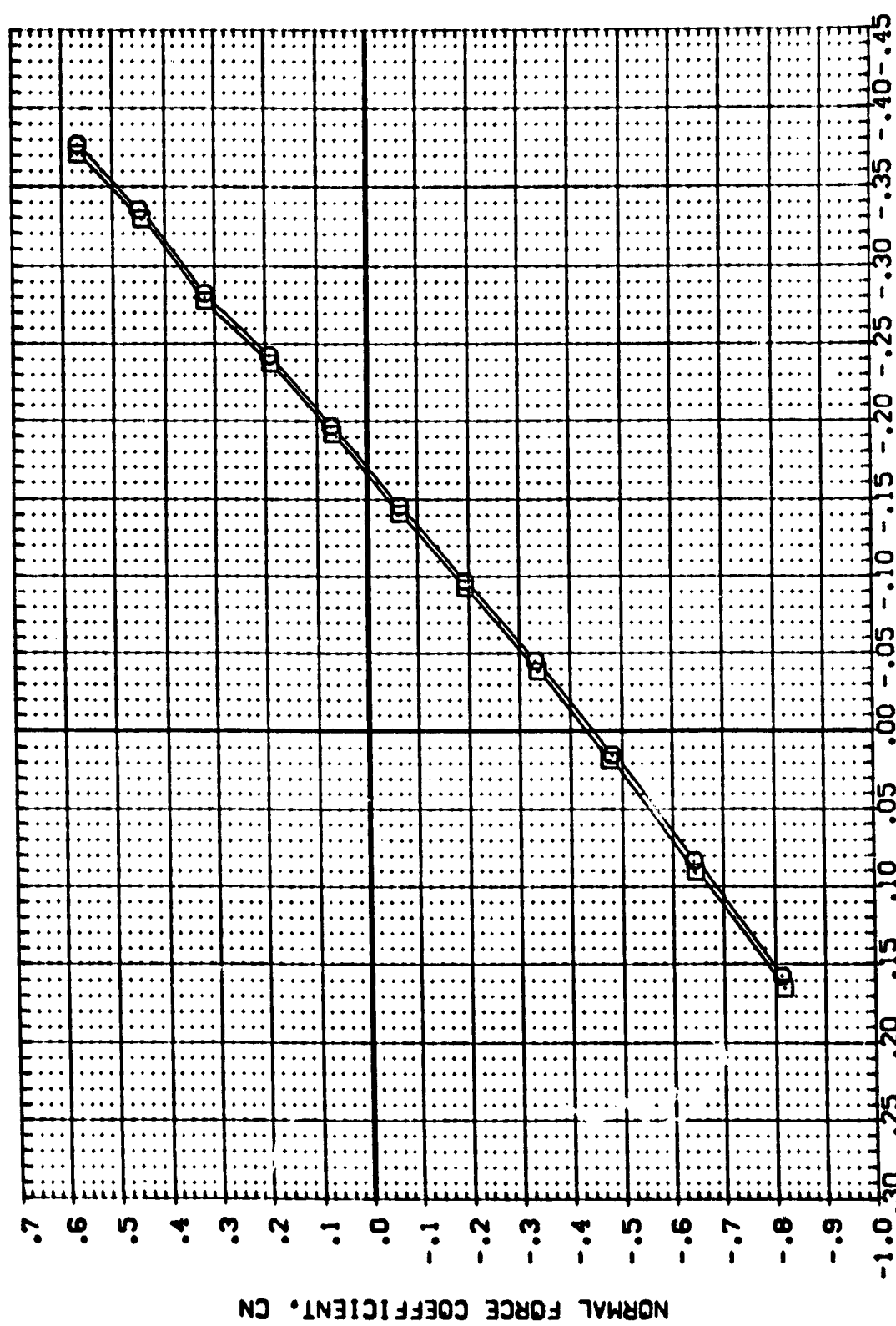
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DATA SET SYMBOL: 8
 CONFIGURATION DESCRIPTION: LRC @ TPT 657 [A4] T1P1S1P201
 LRC @ TPT 657 [A4] T1P1S1P201

BETA: 5.000
 CLORDER: 5.000
 CLDOR: -20.000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 1290.0000 INCHES
 BREF: 1290.0000 INCHES
 XMRP: 576.0000 INCHES
 YMRP: 400.0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150

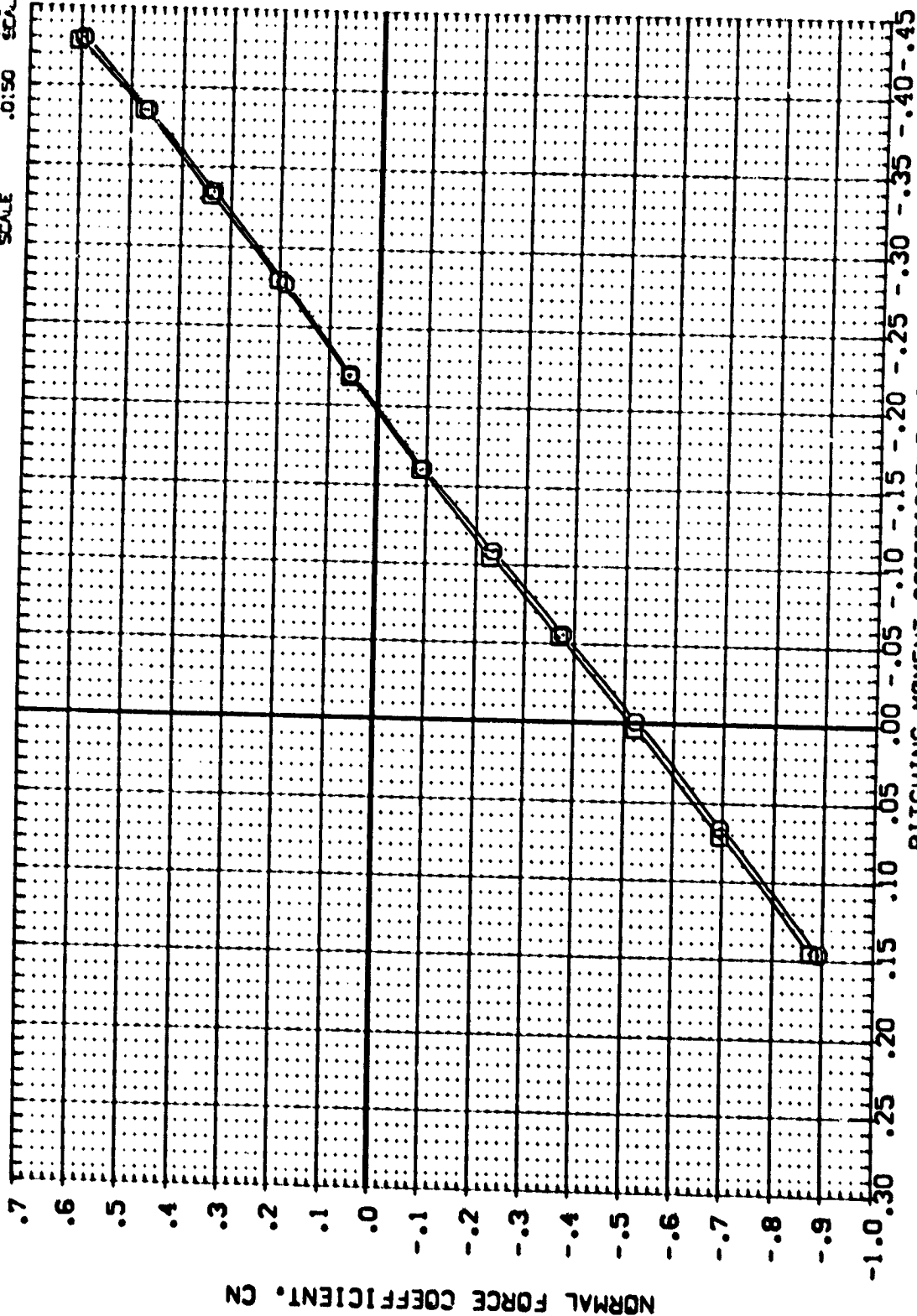


EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS
 PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL: C
 CONFIGURATION DESCRIPTION:
 LRC 8 TPT 667 [A4] TIPS[P20]
 LRC 8 TPT 667 [A4] TIPS[P20]

BETA: 5.000
 RUDDER: 5.000 -20.000

REFERENCE INFORMATION:
 SREF: 2650.0000 50.00
 LREF: 1250.3000 110.00
 BREF: 1250.3000 110.00
 YREF: 576.0000 110.00
 ZREF: 400.0000 110.00
 SCALE: .0150

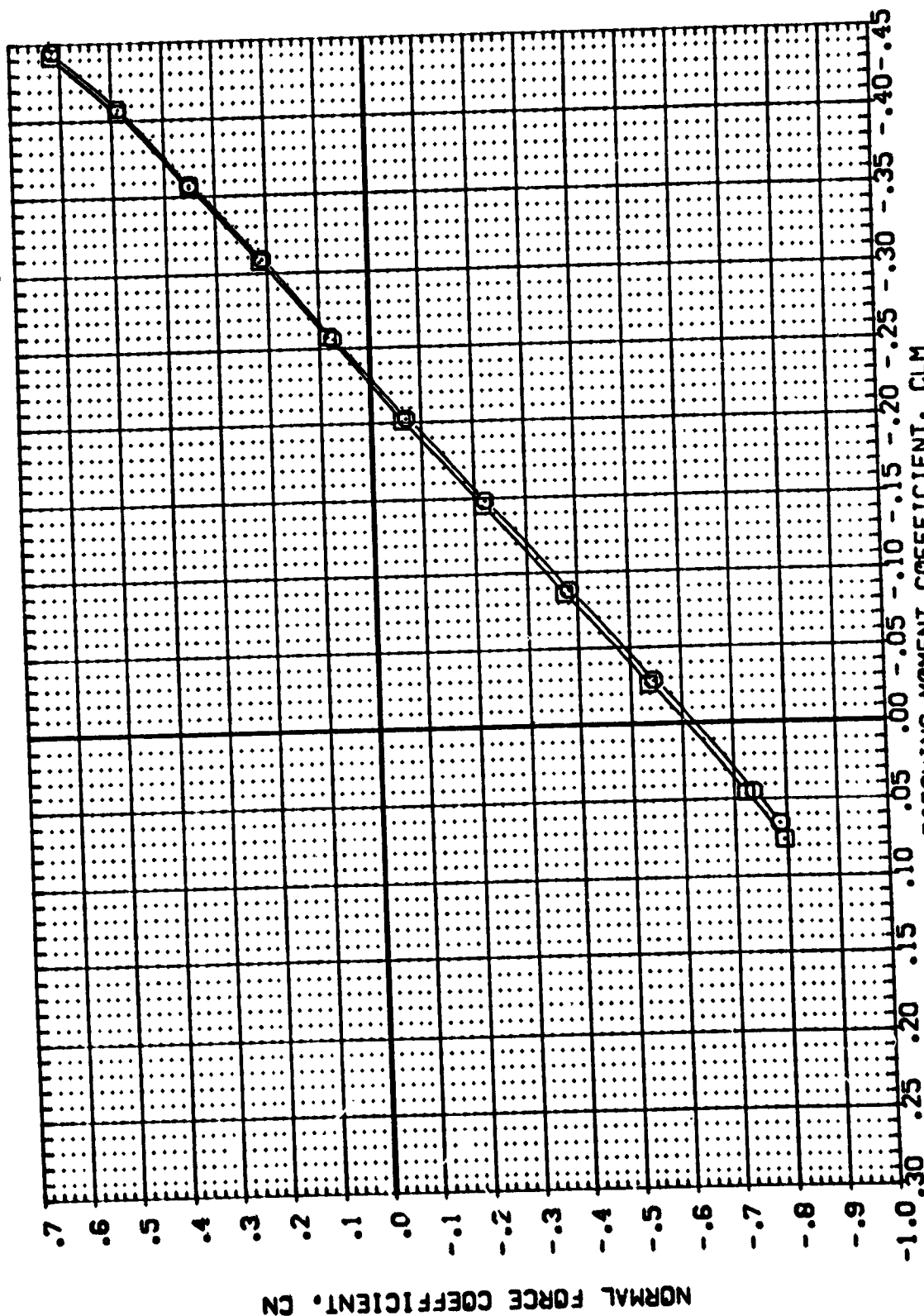


EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS
 (C)MACH = .98

REFERENCE INFORMATION
 SREF 2650.0000 SQ.FT.
 LREF 1250.0000 INCHES
 BREF 1250.0000 INCHES
 YMRP 576.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA RUDDER
 5.000
 5.000 -20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (BC216) 8 LRC 8 TPT 657 [A4] TIP1SIP201
 (E38017) 8 LRC 8 TPT 657 [A4] TIP1SIP201



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

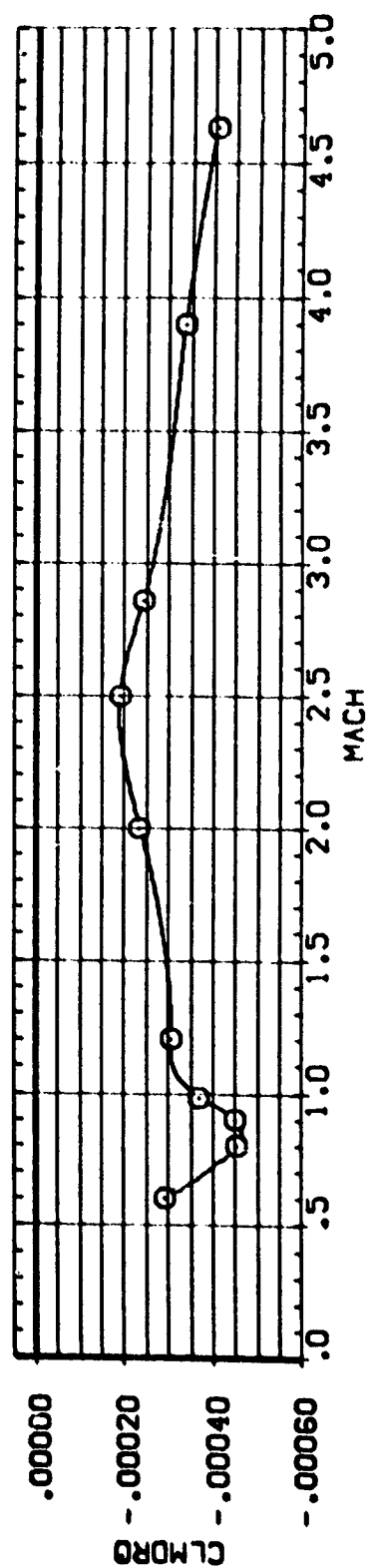
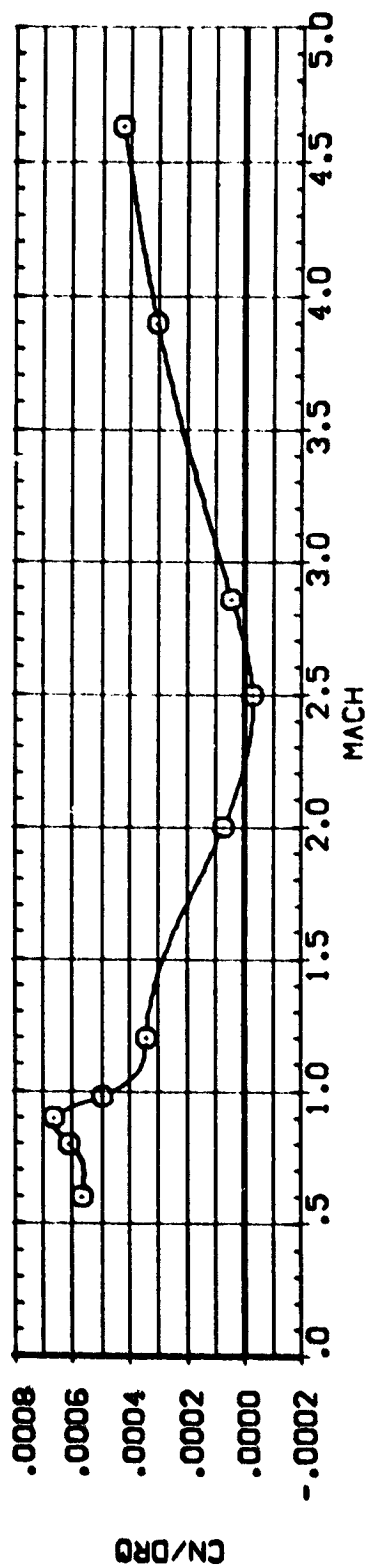
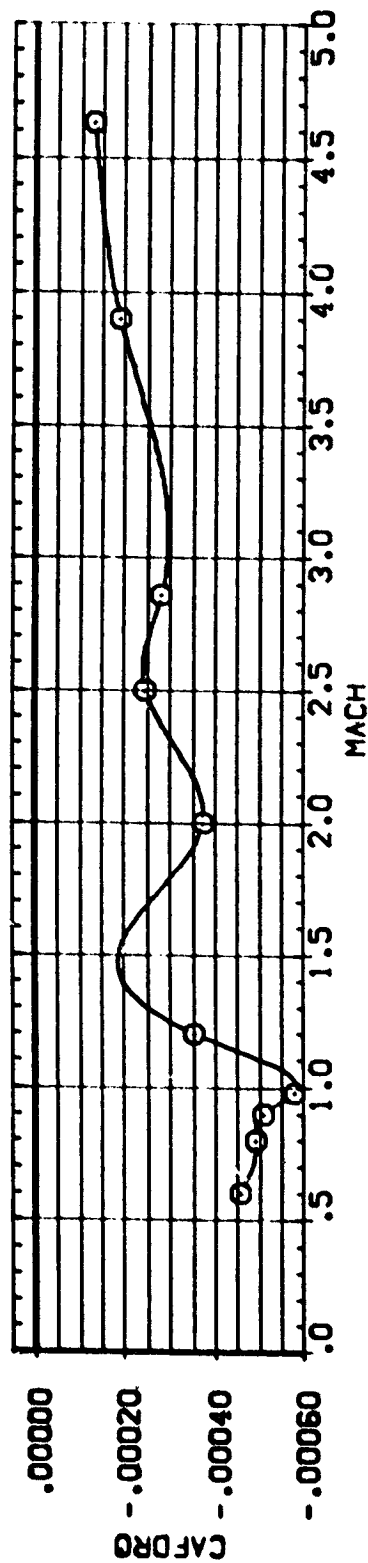
(E)MACH = 1.20

LARC TESTS IA41 AND IA42A/B TIP1S1P201

(F08016)

PARAMETRIC VALUES
Q. TRJ -20.000 BETA 5.000

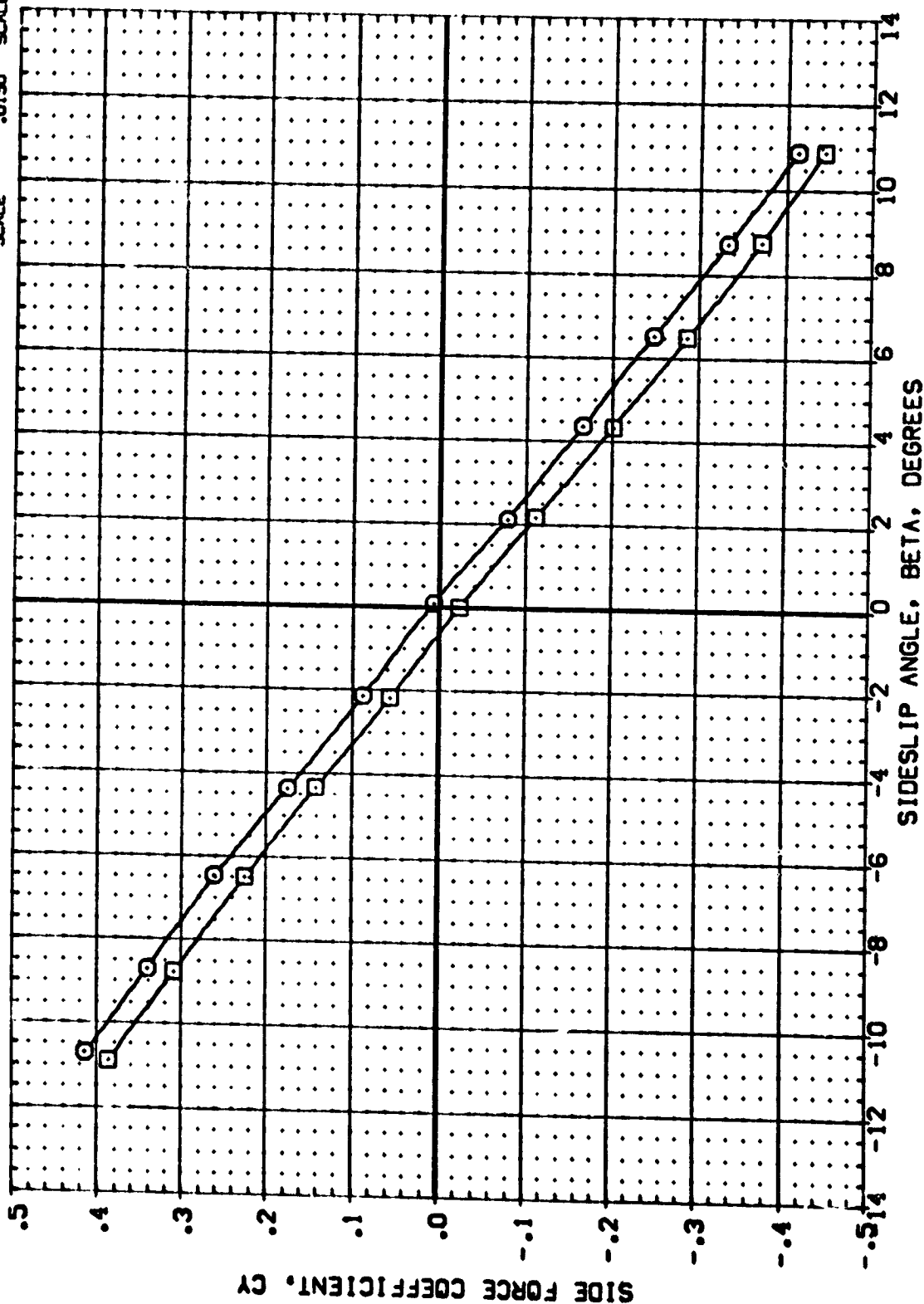
REFERENCE INFORMATION
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LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XTRP 976.0000 INCHES
YTRP .0000 INCHES
ZTRP 400.0000 INCHES
SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

| | |
|------|---------|
| PAID | ORDER |
| .630 | .000 |
| .000 | -20.000 |

| REFERENCE INFORMATION | |
|-----------------------|------------------|
| SREF | 2690.0000 SO.FT. |
| LREF | 1290.3000 INCHES |
| BREF | 1290.3000 INCHES |
| XPRP | 576.0000 INCHES |
| YPRP | 400.0000 INCHES |
| ZPRP | 400.0000 INCHES |
| SCALE | .0150 SCALE |



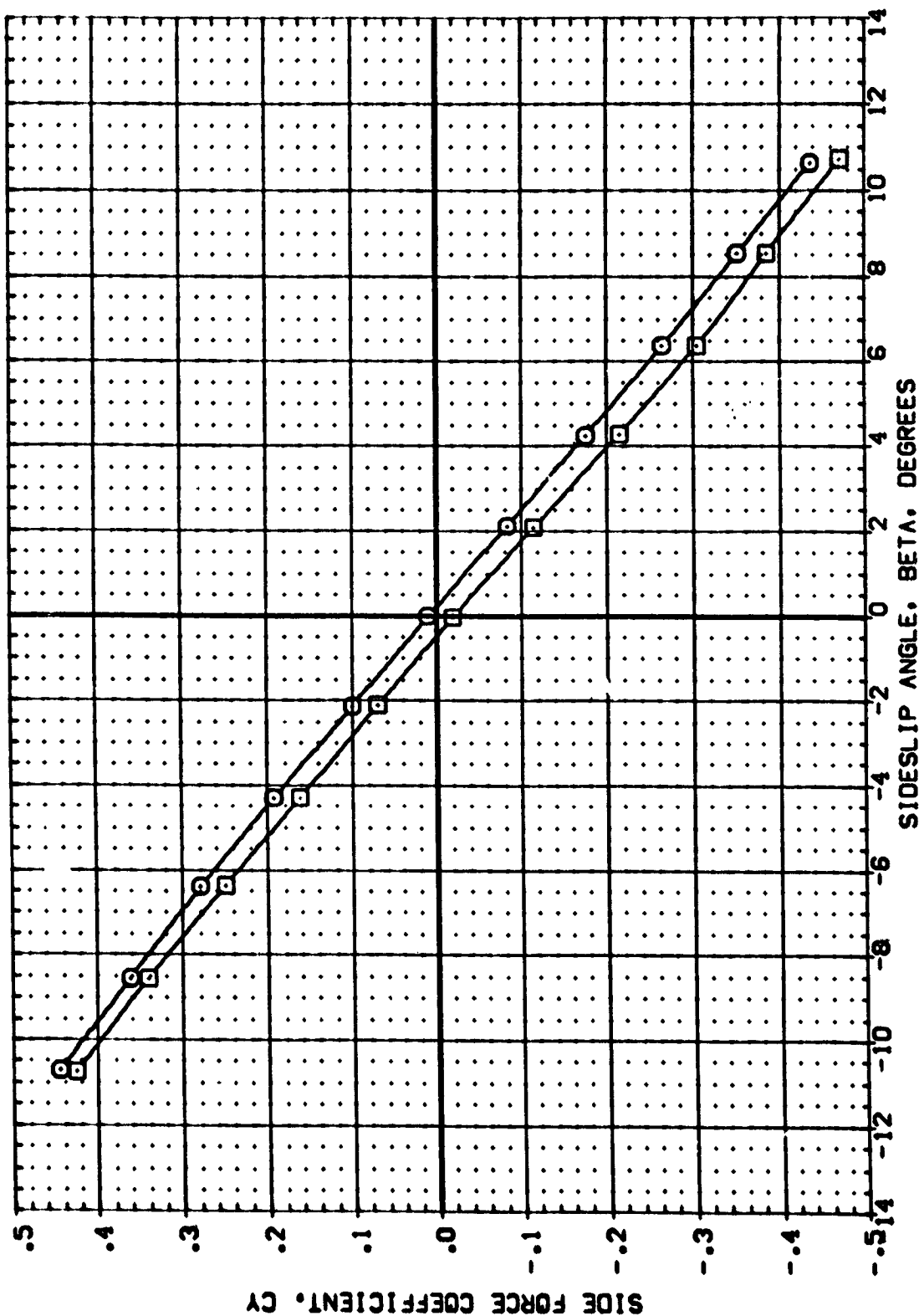
EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 {808003} LRC 8 TPT 657 1A1 T1P1S1P20
 {808005} LRC 8 TPT 657 1A1 T1P1S1P20

ALPHA RUDDER
 .000 .000
 .000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1250.0000 IN.-ES
 BREF 1250.0000 IN.-ES
 XMRP 976.0000 IN.-ES
 YMRP .0000 IN.-ES
 ZMRP .0000 IN.-ES
 SCALE 400.0000 IN.-ES
 .0150 SCALE



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

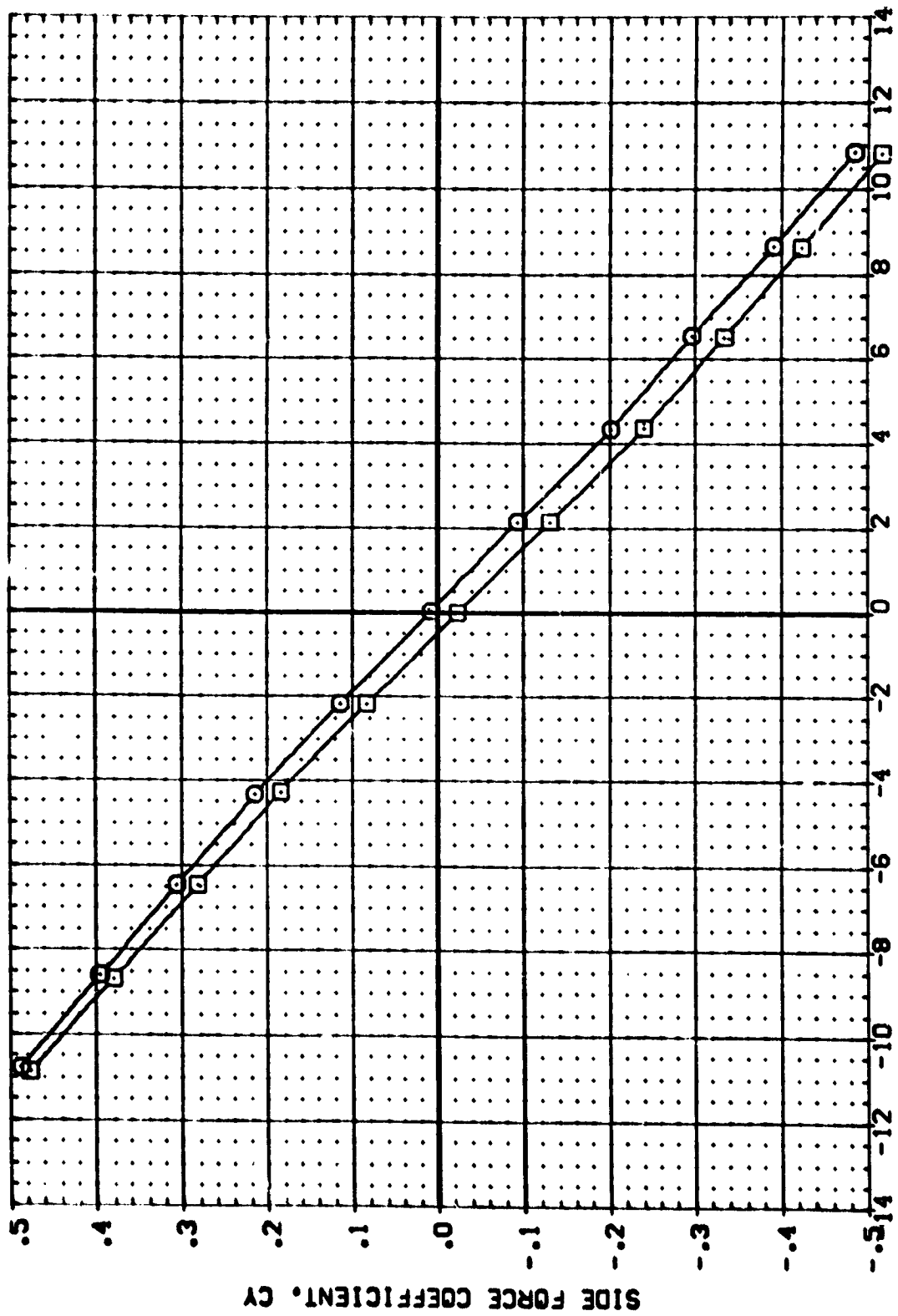
(B)MACH = .79



DATA SET SYMBOL: 0
 DESCRIPTION: 8 TPT 527 1A1 TIPISIP201
 8 TPT 657 1A1 TIPISIP201

ALPHA: .000
 RUDDER: .000
 -20.000

REFERENCE INFORMATION
 SREF: 2690.0000 SQ.FT.
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 XMRP: 976.0000 INCHES
 YMRP: 400.0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150



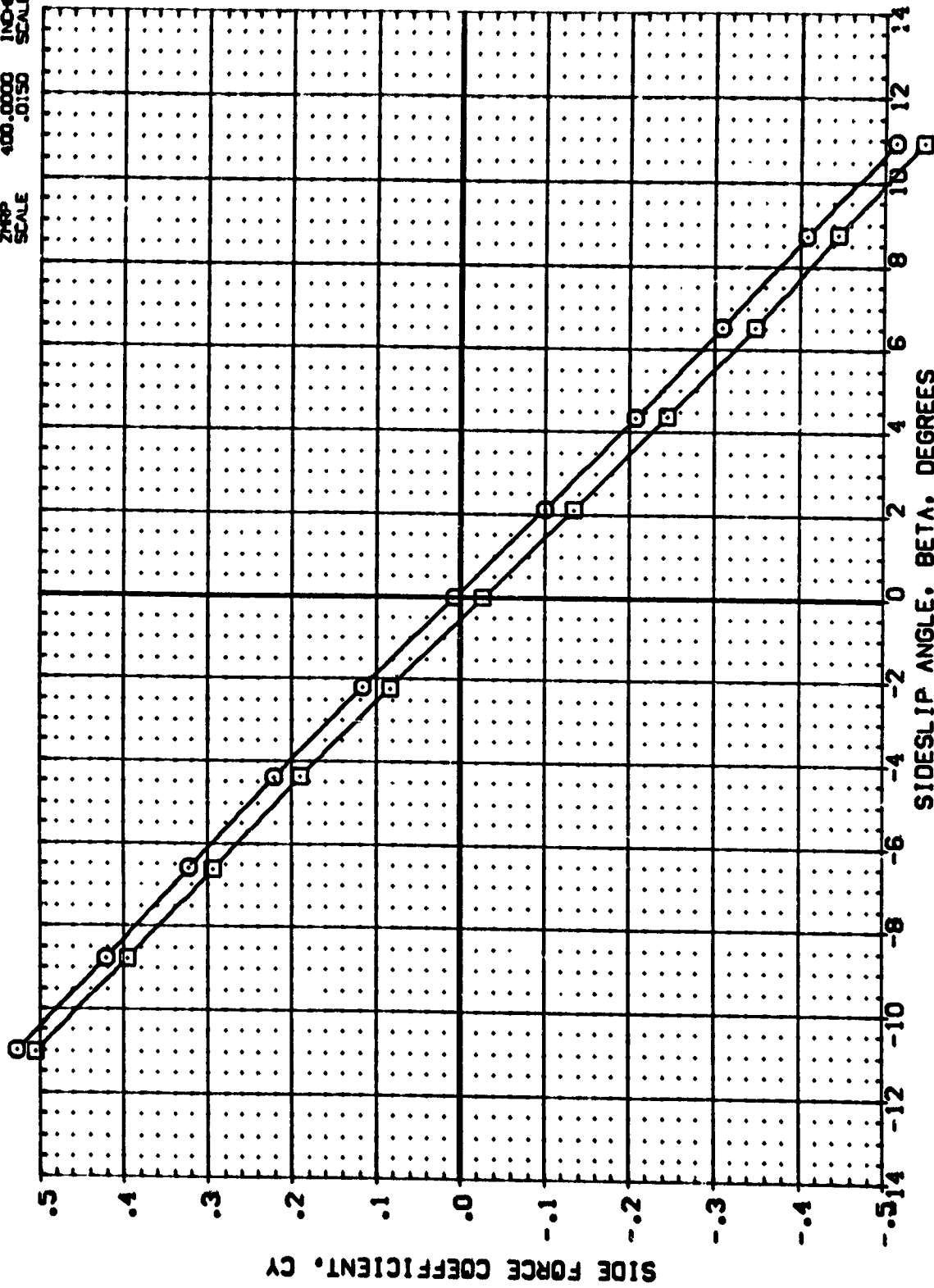
EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

(C)MACH = .89

DATA SET SYMBOL: [808003] LRC 8 TPT 657 [A4] TIP[SIP20]
 [808005] LRC 8 TPT 657 [A4] TIP[SIP20]

ALPHA: .000
 RUDDER: -20.000

REFERENCE INFORMATION:
 SREF: 2690.0000 SD: FT
 LREF: 1290.3000 IN: ES
 BREF: 1290.3000 IN: ES
 YMRP: 976.0000 IN: ES
 ZMRP: 400.0000 IN: ES
 SCALE: .0150



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

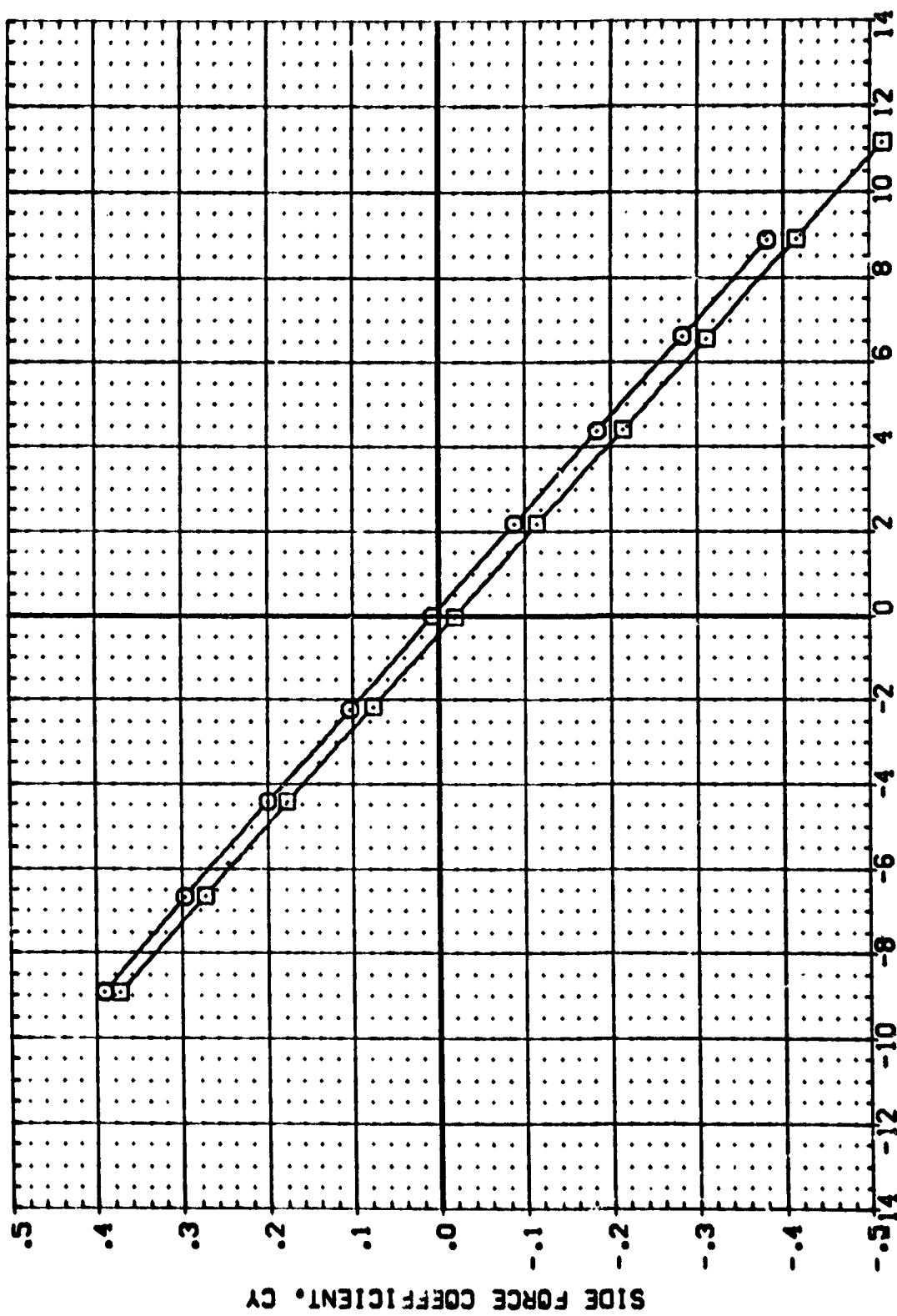
(D)MACH = .98



DATA SET SYMBOL: 2
 CONFIGURATION DESCRIPTION:
 1C @ TPT 657 1A1: TIPISIP201
 1C @ TPT 657 1A1: TIPISIP201

A: 344
 RUDDER
 .000 .000
 .000 -20.000

REFERENCE INFORMATION
 SREF: 2690.0000 50.FT.
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 YMRP: 976.0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150



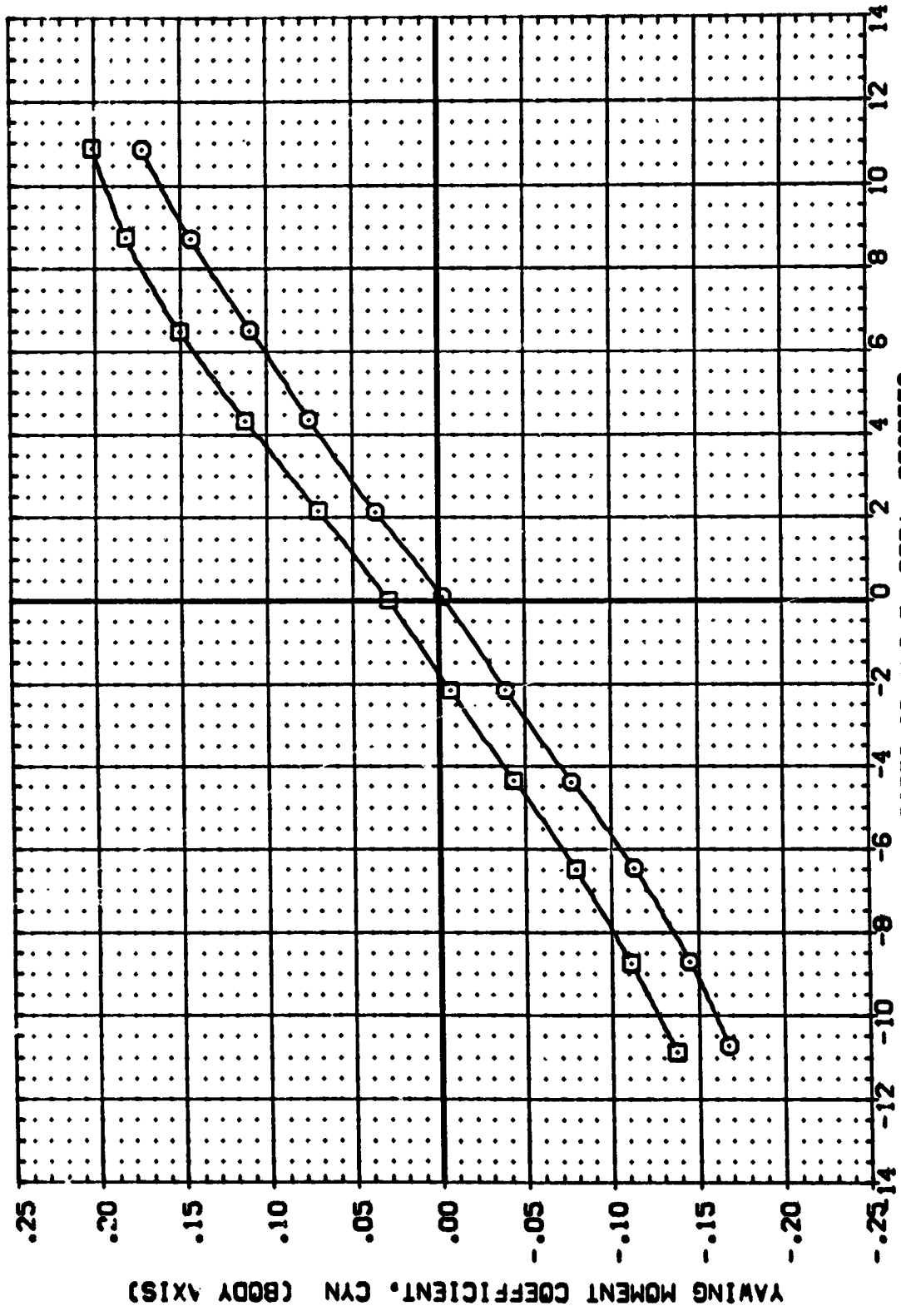
EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS
 SIDESLIP ANGLE, BETA, DEGREES

(E)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [828003] LRC 8 TPT 657 [A1] TIP1SIP201
 [828005] LRC 8 TPT 657 [A1] TIP1SIP201

ALPHA RUDDER
 .000 .000
 .000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 50 FT
 LREF 1250.3000 IN-ES
 BREF 1250.3000 IN-ES
 YMRP 976.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 IN-ES



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

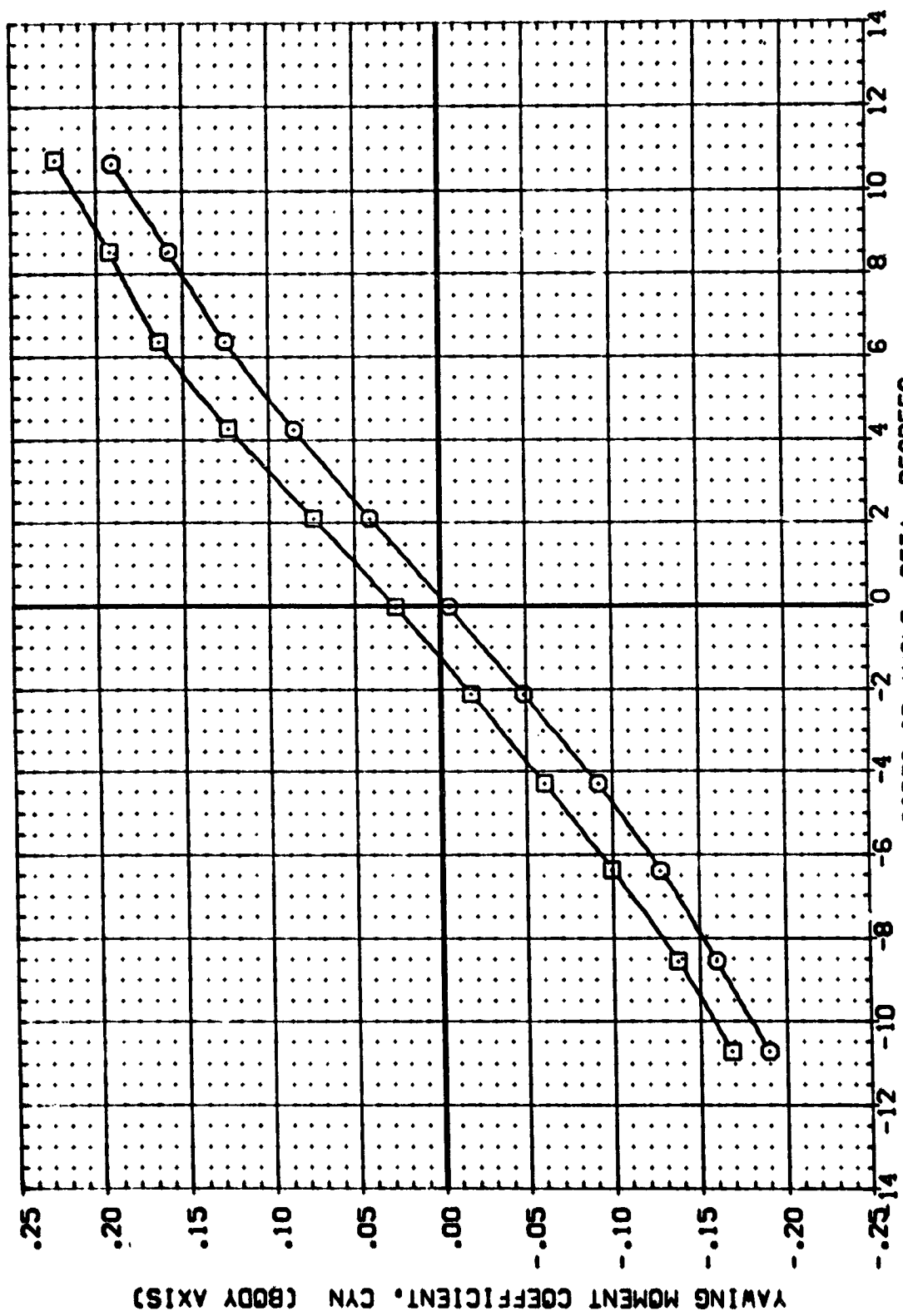
(A)MACH = .60



SET SYMBOL: 8
 CONFIGURATION DESCRIPTION:
 8 TPT 567 [A4] TIPISIP201
 8 TPT 667 [A4] TIPISIP201

ALPHA RUDDER
 .000 .000
 .000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 1250.0000 INCHES
 BREF 1250.0000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



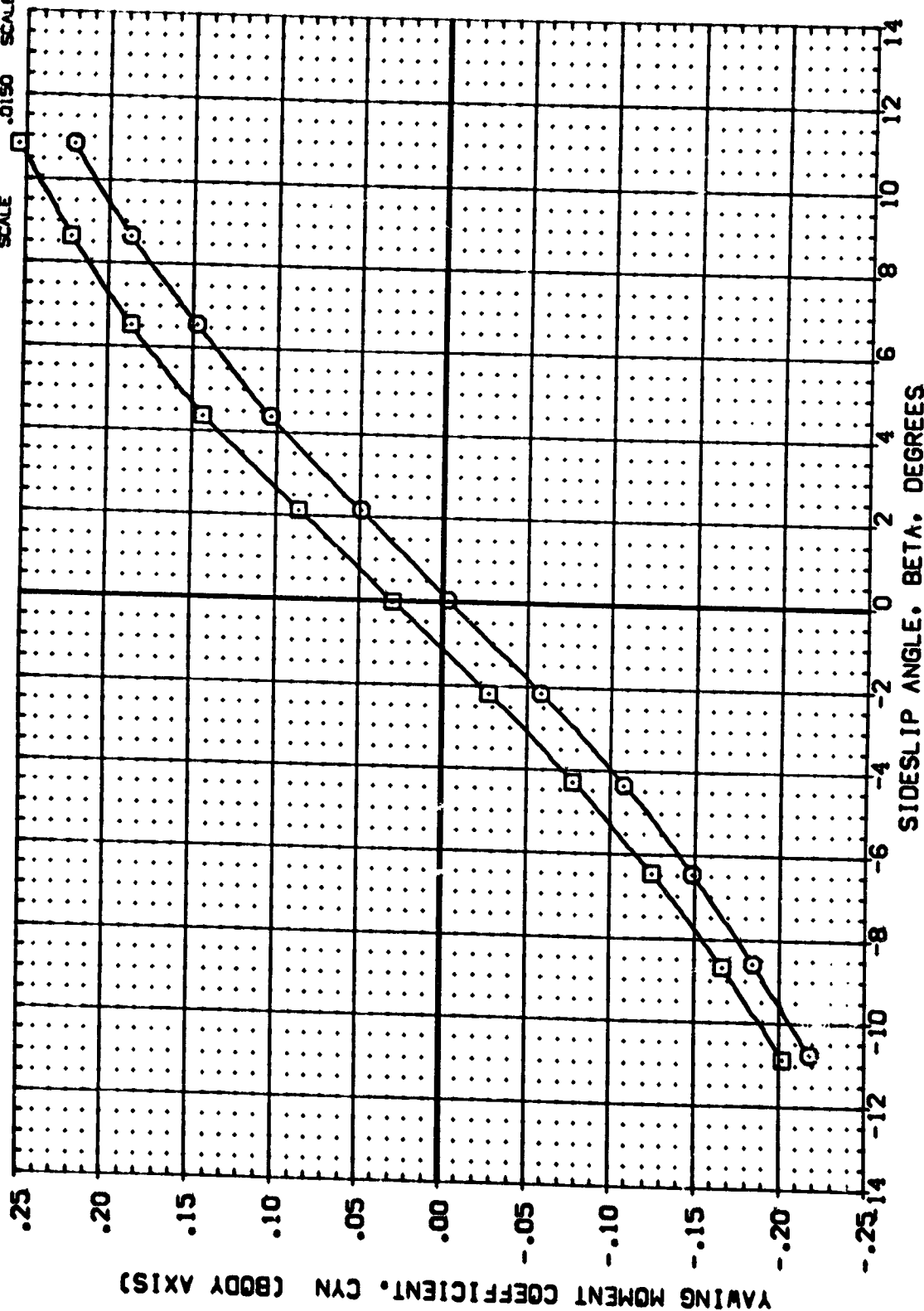
EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

(B)MACH = .79

DATA SET SYMBOL: (808003) (808005) CONFIGURATION DESCRIPTION: LRC 8 TPT 657 [A4] TIP[SIP20] LRC 8 TPT 657 [A4] TIP[SIP20]

ALPHA: .000 .000 RUDDER: .000 -20.000

REFERENCE INFORMATION:
SPE: 2690.0000 SQ.FT.
LREF: 1290.3000 INCHES
BREF: 1290.3000 INCHES
XMRP: 576.0000 INCHES
YMRP: 400.0000 INCHES
ZMRP: 400.0000 INCHES
SCALE: .0150



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

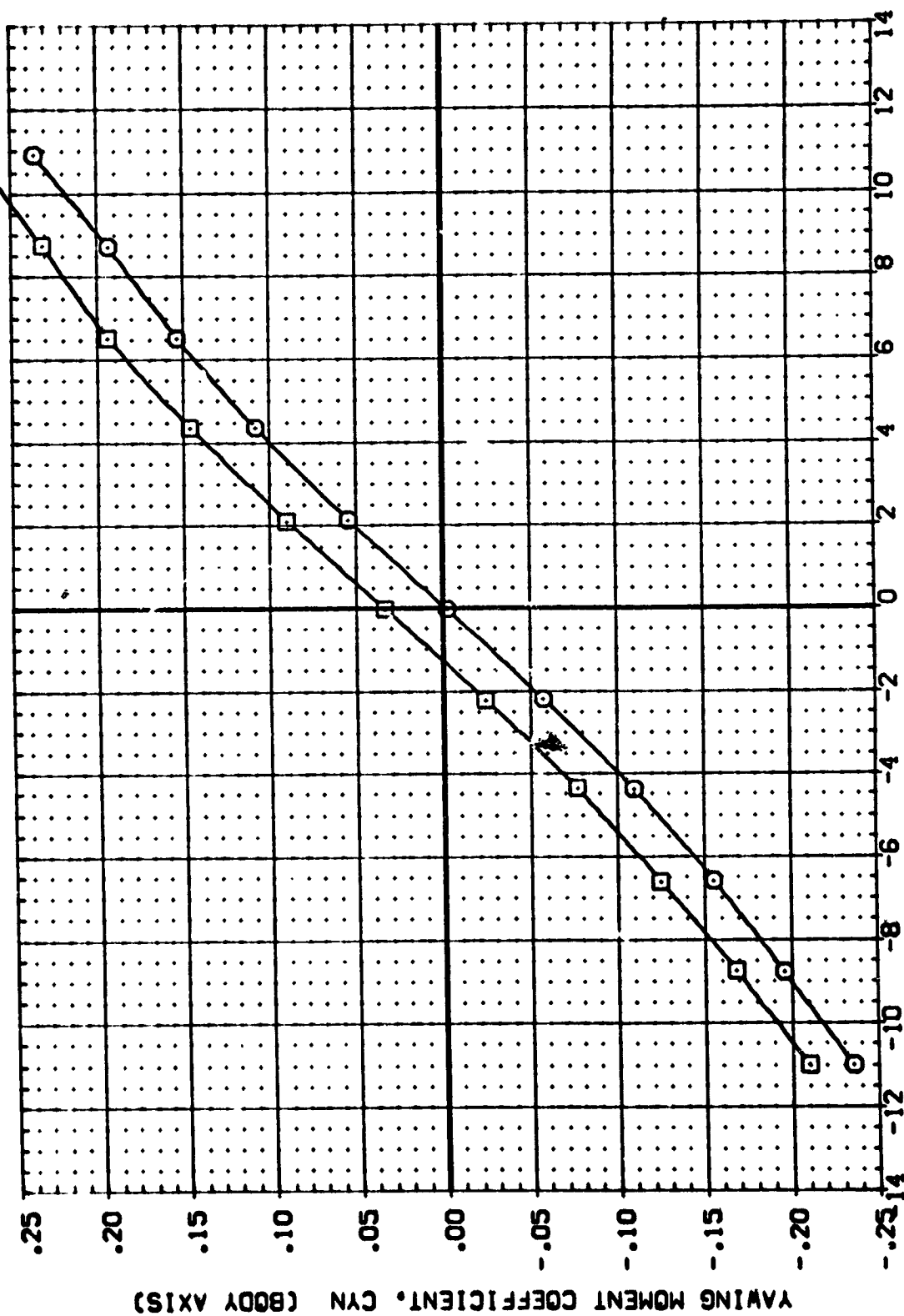
(C)MACH = .89



| DATA SET NAME | CONFIGURATION | DESCRIPTION |
|---------------|--------------------|-------------|
| (B080723) | LRC 0 TPT 667 IA41 | TPI'SIP201 |
| (B2005) | LRC 0 TPT 667 IA41 | TPI'SIP201 |

| | |
|-------|---------|
| ALPHA | RUDER |
| .003 | .000 |
| .000 | -20.000 |

| REFERENCE INFORMATION | | SQ.FT. |
|-----------------------|-----------|--------|
| SREF | 2690.0000 | INCHES |
| LREF | 1290.3000 | INCHES |
| BREF | 1290.3000 | INCHES |
| XMRP | 576.0000 | INCHES |
| YMRP | 0.0000 | INCHES |
| ZMRP | 40.0000 | INCHES |
| SCALE | .0150 | SCALE |



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

(D)MACH = .38



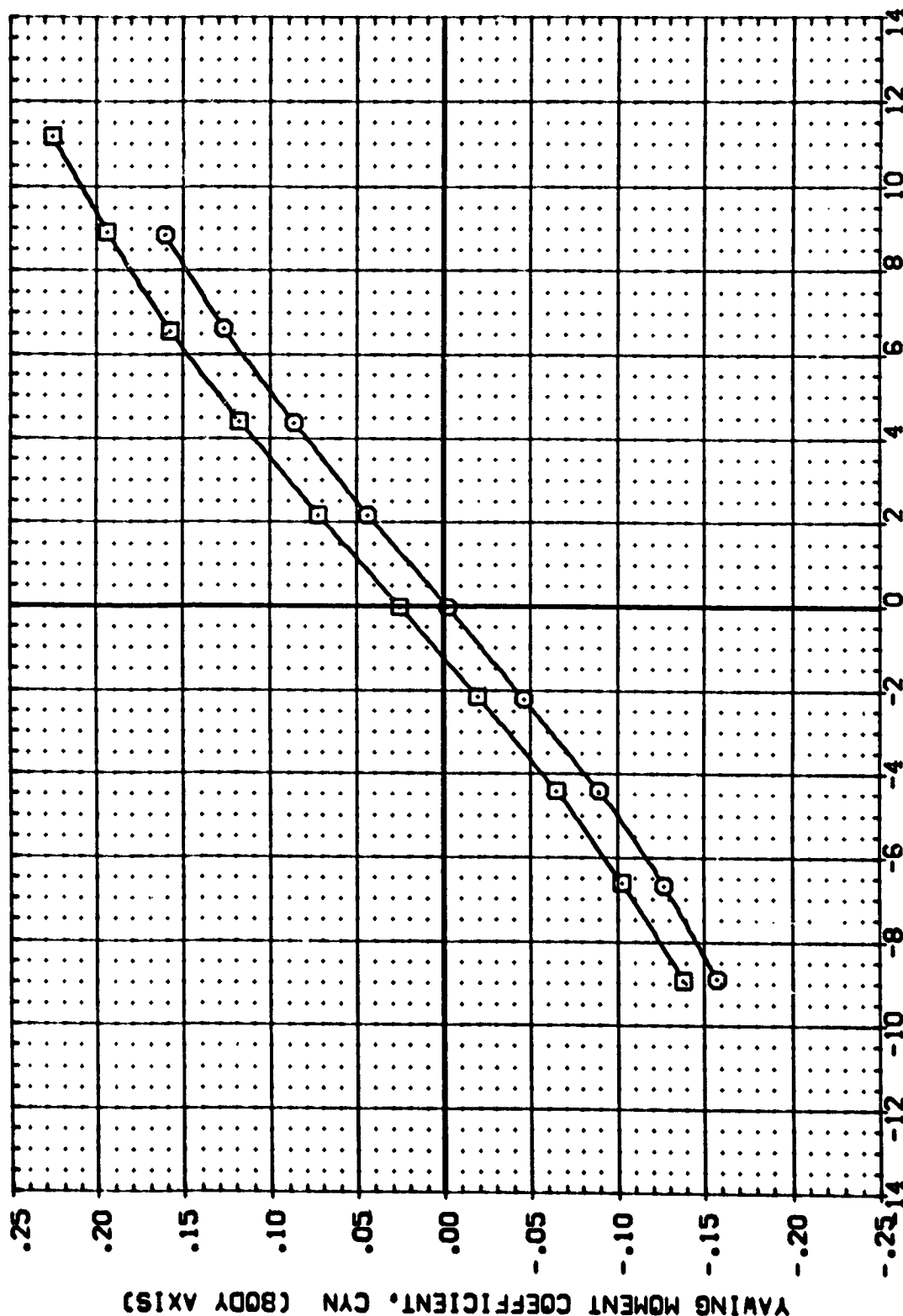
DATA SET SYMBOL: (B28003) LRC 8 TPT 657 [A1] TIP[SIP20]
(B28005) LRC 8 TPT 657 [A1] TIP[SIP20]

ALPHA: .000
RUDDER: .000
-20.000

CONFIGURATION DESCRIPTION

REFERENCE INFORMATION

SREF: 2690.0000 50.FT.
LREF: 1290.3000 INCHES
BREF: 1290.3000 INCHES
XTRP: 976.0000 INCHES
YTRP: 400.0000 INCHES
ZTRP: 400.0000 INCHES
SCALE: .0150



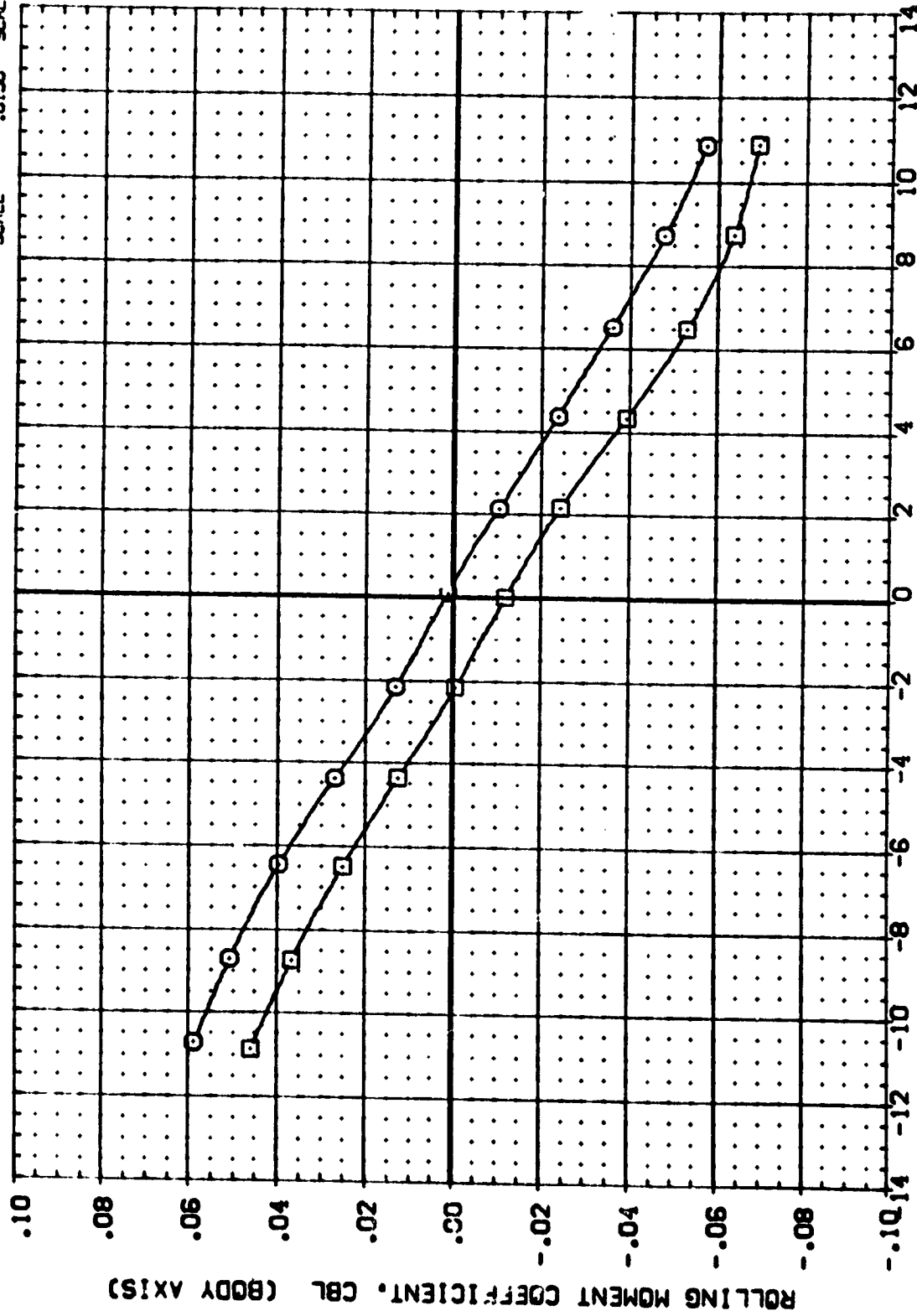
EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

(E)MACH = 1.20

DATA SET SYMBOL: 0
 (30003) 0 0 TPT 657 [A1] TIP[S]P201
 (30005) 0 0 TPT 657 [A1] TIP[S]P201

ALPHA RUDDER
 .000 .000
 .000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 IN-ES
 BREF 1290.3000 IN-ES
 XMRP 976.0000 IN-ES
 YMRP 400.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150



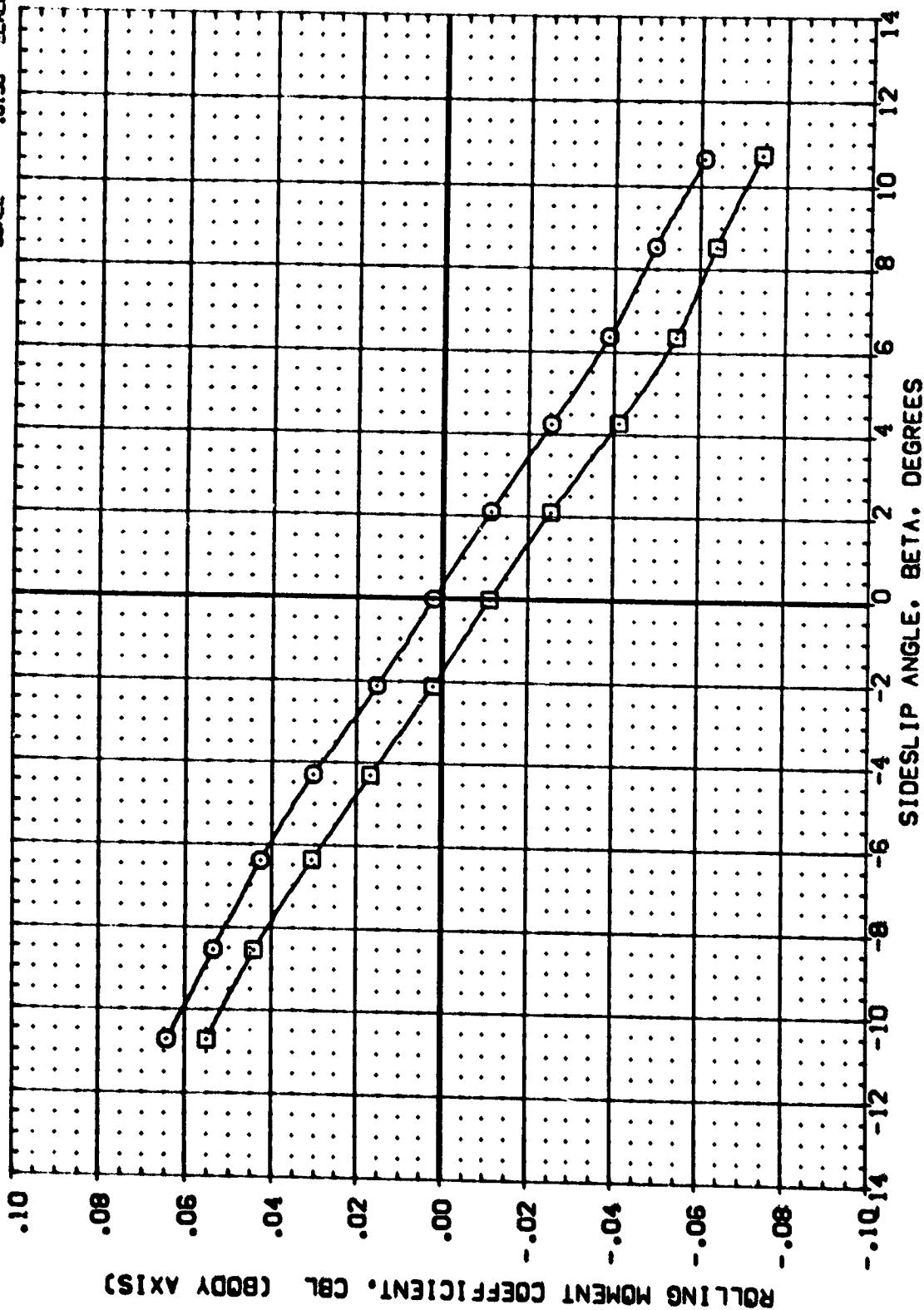
EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

(M)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808003) LRC 8 TPT 657 [A1] TIP[SIP20]
 (808005) LRC 8 TPT 657 [A1] TIP[SIP20]

ALPHA RUDDER
 .000 .000
 .000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INO-ES
 BREF 1290.3000 INO-ES
 XMRP 976.0000 INO-ES
 YMRP 400.0000 INO-ES
 ZMRP 400.0000 INO-ES
 SCALE .0150 SCALE



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

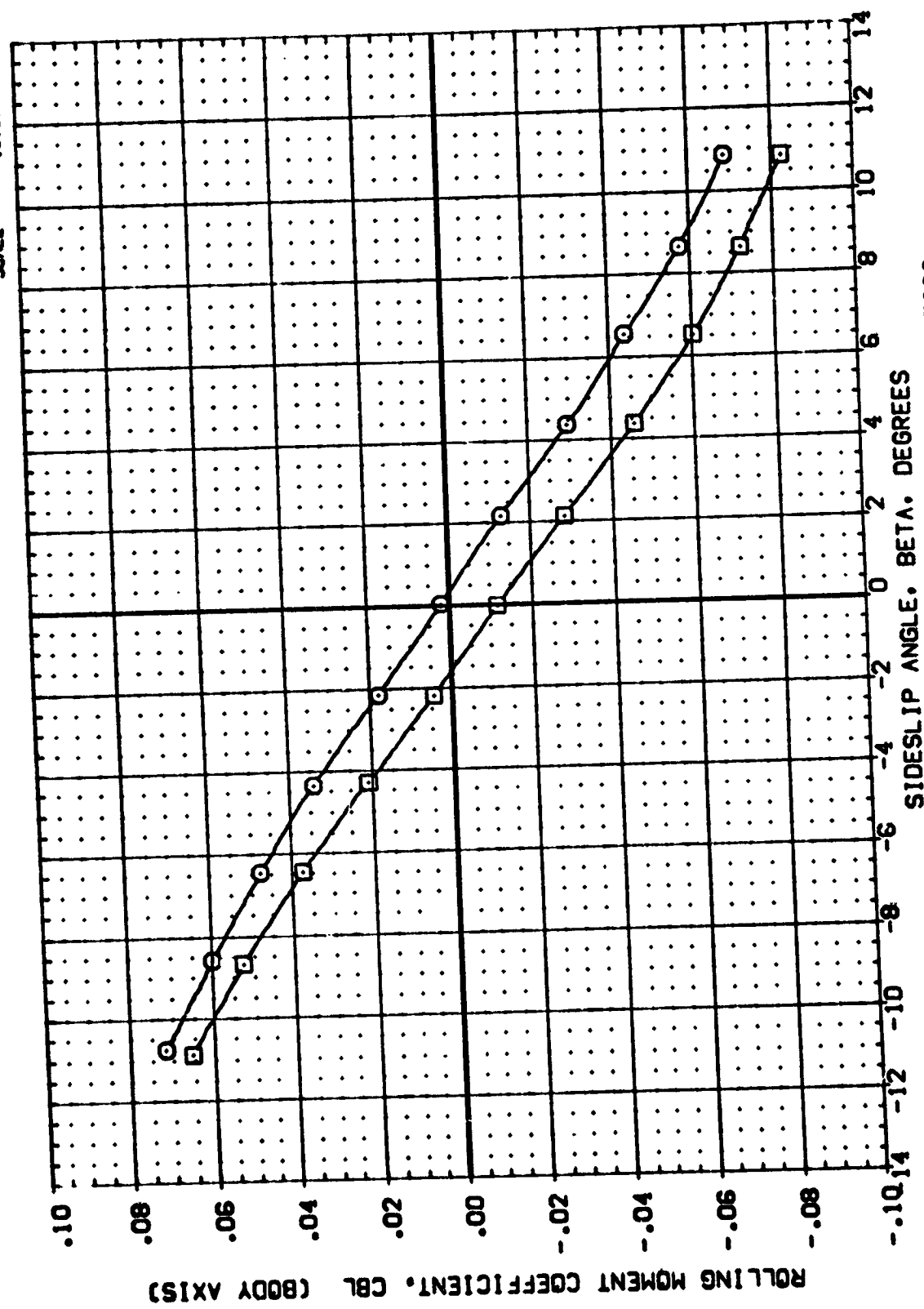
(8)MACH = .79



REFERENCE INFORMATION
 REF 2630.0000 SQ.FT.
 LREF 1200.0000 IN.-ES
 BREF 1200.0000 IN.-ES
 XREF 976.0000 IN.-ES
 YREF 400.0000 IN.-ES
 ZREF 400.0000 IN.-ES
 SCALE .0150

ALPHA RUDDER
 .000 .000
 .000 -20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RC 8 TPT 657 [A4] TIP[SIP20]
 [RC 8 TPT 657 [A4] TIP[SIP20]
 [RC 8 TPT 657 [A4] TIP[SIP20]



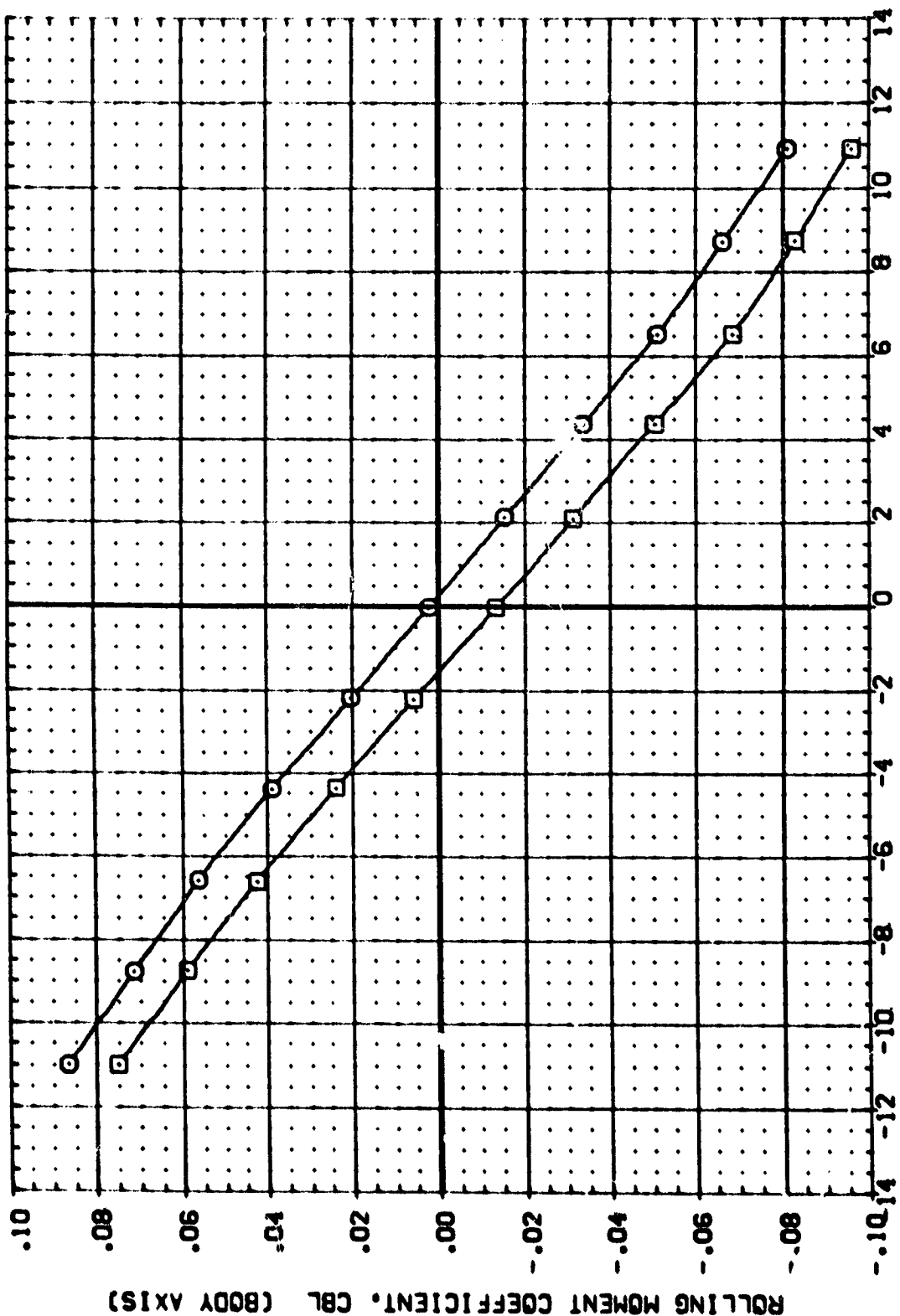
EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

(C)MACH = .89



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

(O)MACH = .98



DATA SET SYMBOL CONFIGURATION DESCRIPTION
(828003) [] LRC 8 TPT 657 [A4] T1P1S1P201
(828005) [] LRC 8 TPT 657 [A4] T1P1S1P201

REFERENCE INFORMATION
SREF 2650.0000 SQ.FT. 50.FT.
LREF 1250.3000 IN.OES
BREF 1250.3000 IN.OES
XMRP 976.0000 IN.OES
YMRP 400.0000 IN.OES
ZMRP 400.0000 IN.OES
SCALE .0150

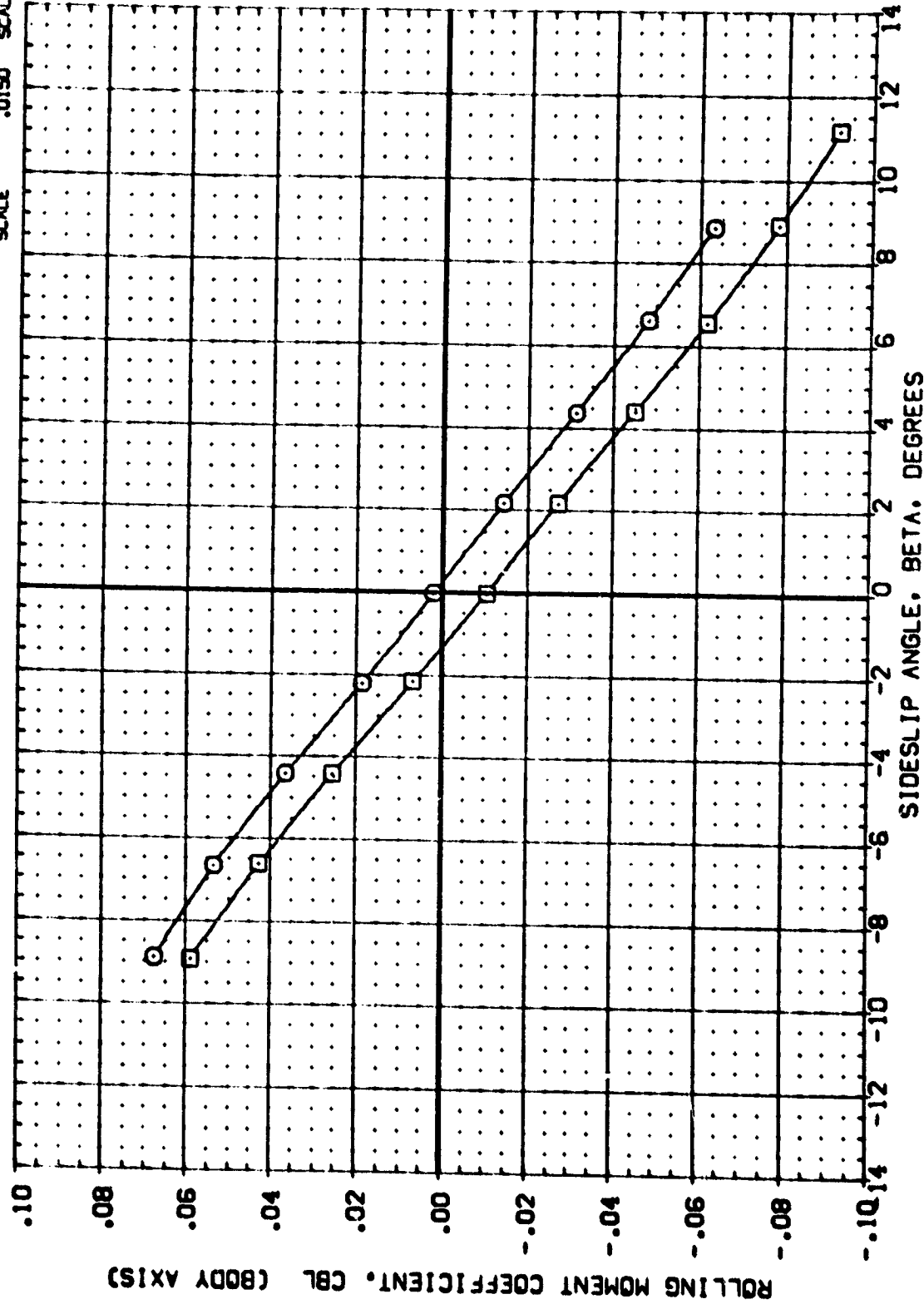
ALPHA RUDDER
.000 .000
.000 -20.000

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

DATA SET SYMBOL: 8
 CONFIGURATION DESCRIPTION:
 AC 8 IPT 657 [A4] TIP[SIP20]
 AC 05: AC 8 IPT 657 [A4] TIP[SIP20]

ALPHA: .000
 RUD: .000
 RUD: -20.000

REFERENCE INFORMATION:
 SWFF 2630.0000 50 FT
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YPRP 576.0000 INCHES
 ZPRP 400.0000 INCHES
 SCALE .0150



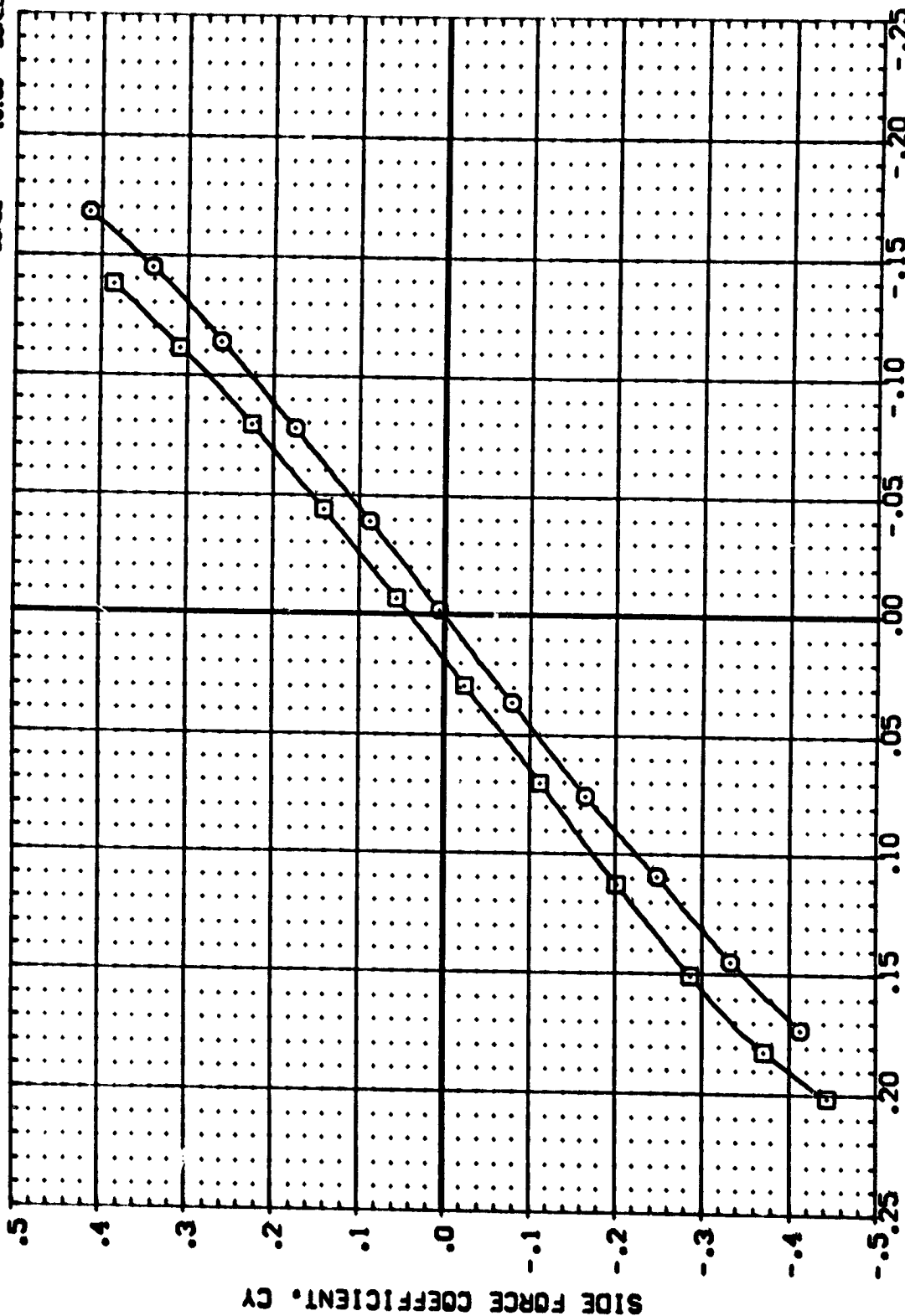
EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

(MACH = 1.20)

DATA SET SYMBOL: 9
 (808003) LRC 8 TPT 667 [A4] TIP[S]P201
 (808005) LRC 8 TPT 667 [A4] TIP[S]P201

ALPHA RUDDER
 .000 .000
 .000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.0000 IN.-ES
 BREF 1290.0000 IN.-ES
 XREF 976.0000 IN.-ES
 YREF 400.0000 IN.-ES
 ZREF 400.0000 IN.-ES
 SCALE .0150 SCALE



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

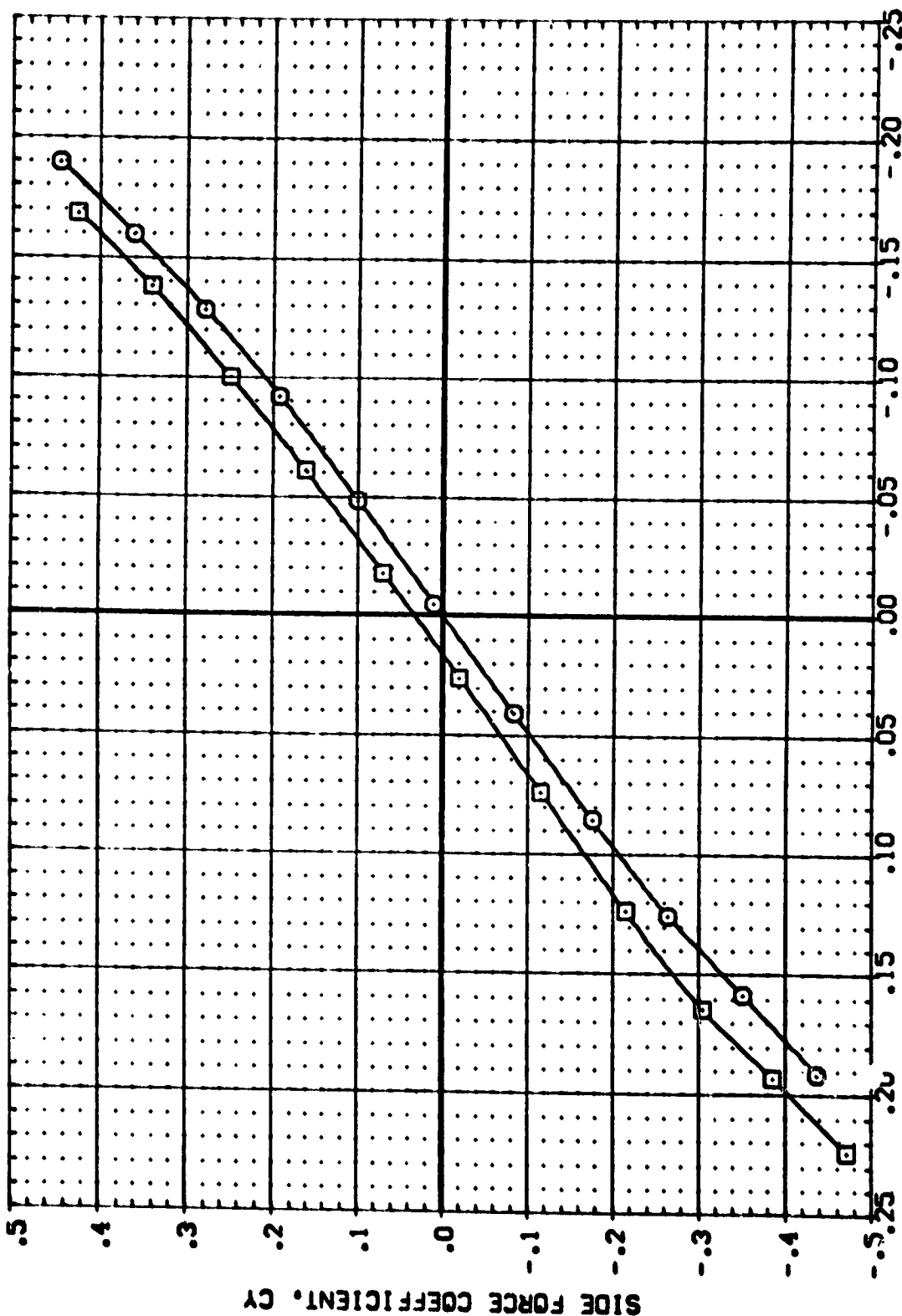
(A)MACH = .60



DATA SET NAME: CONFIDENCE DESCRIPTION:
 (80803) JRC 8 TPT 657 (A4) TIP(SIP20)
 (80805) JRC 8 TPT 657 (A4) TIP(SIP20)

RUDDER
 .000
 .000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 50.00
 LREF 1290.0000 10.00
 BREF 1290.0000 10.00
 XPRP 576.0000 1.00
 YPRP 400.0000 1.00
 ZPRP 400.0000 1.00
 SCALE .0150



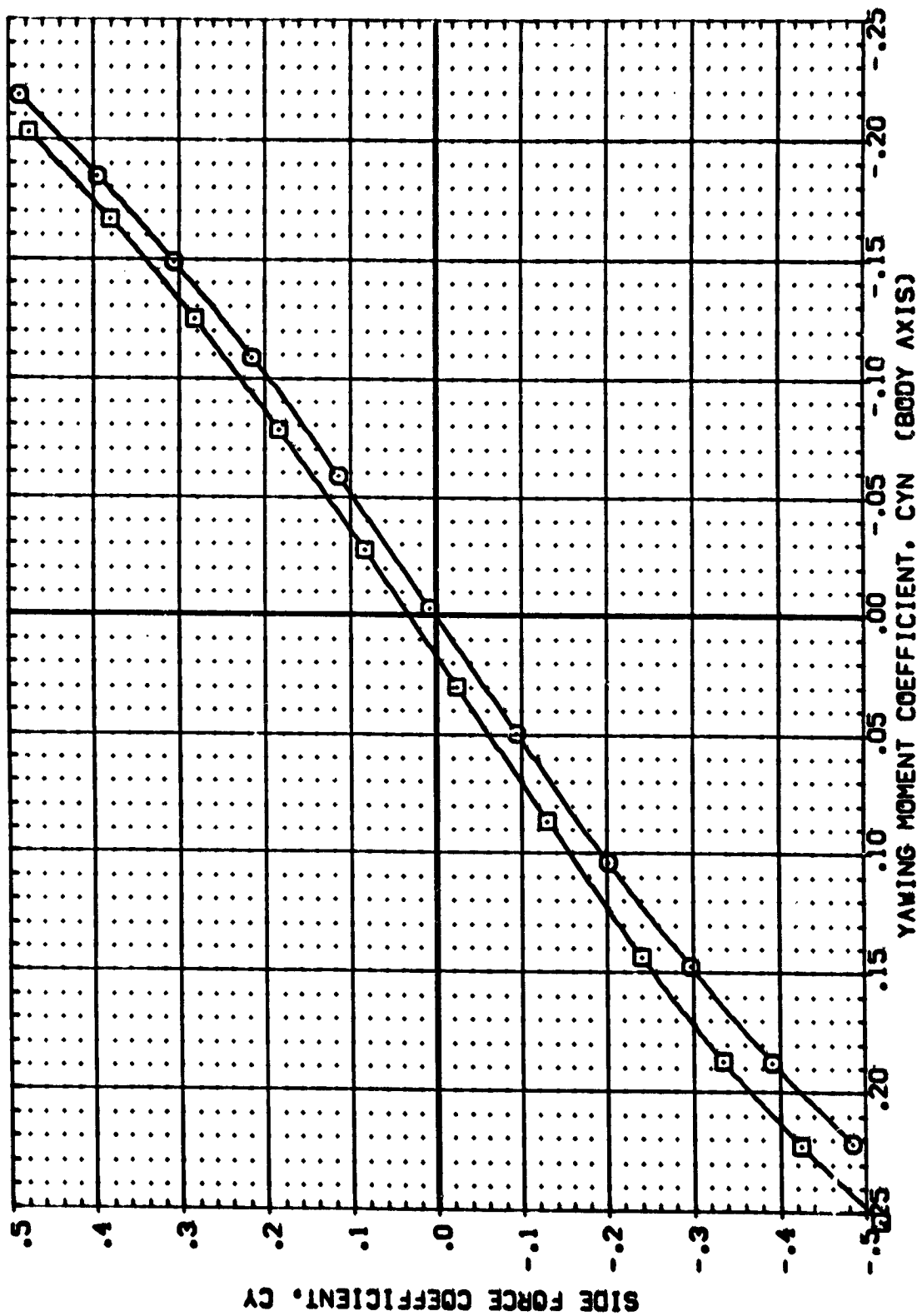
EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

(B)MACH = .79

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (808003) LAC @ TPT 657 [A4] TPI[SIP20]
 (808005) LAC @ TPT 657 [A4] TPI[SIP20]

ALPHA RUDDER
 .000 .000
 .000 -20.000

REFERENCE INFORMATION
 SREF 2850.0000 SQ.FT.
 LREF 1250.3000 IN-ES
 BREF 1250.3000 IN-ES
 XREF 576.0000 IN-ES
 YREF 400.0000 IN-ES
 ZREF 400.0000 IN-ES
 SCALE .0150 SCALE

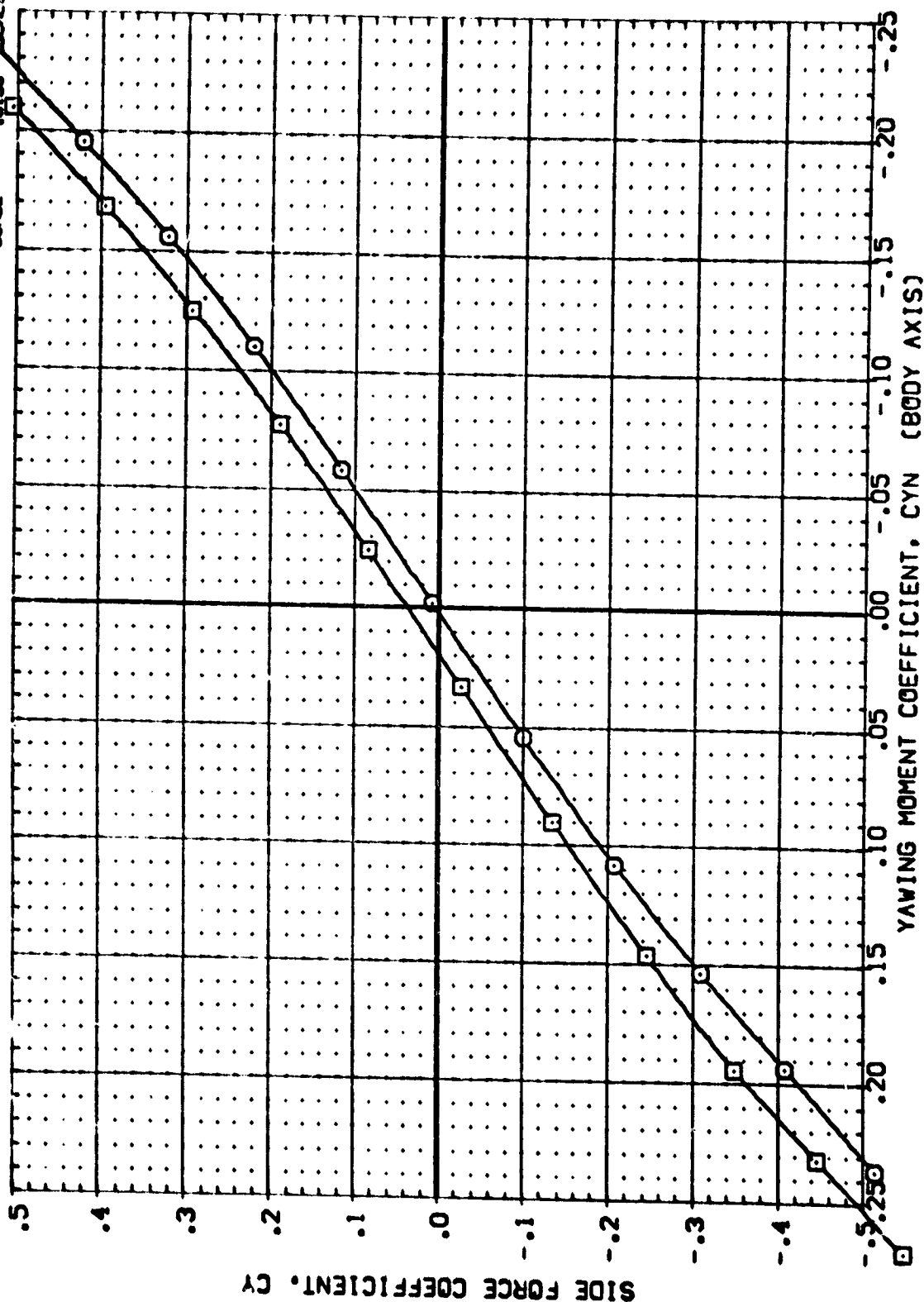


EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS
 (C)MACH = .89



300.000
300.000
300.000

| REFERENCE INFORMATION | | 50 FT. |
|-----------------------|-----------|--------|
| SREF | 2650.0000 | IN-ES |
| REF | 1290.3000 | IN-ES |
| BPREF | 1290.3000 | IN-ES |
| Y-4BP | 976.0000 | IN-ES |
| V4BP | .0000 | IN-ES |
| Z4BP | 400.0000 | IN-ES |
| SCALE | .0150 | SCALE |



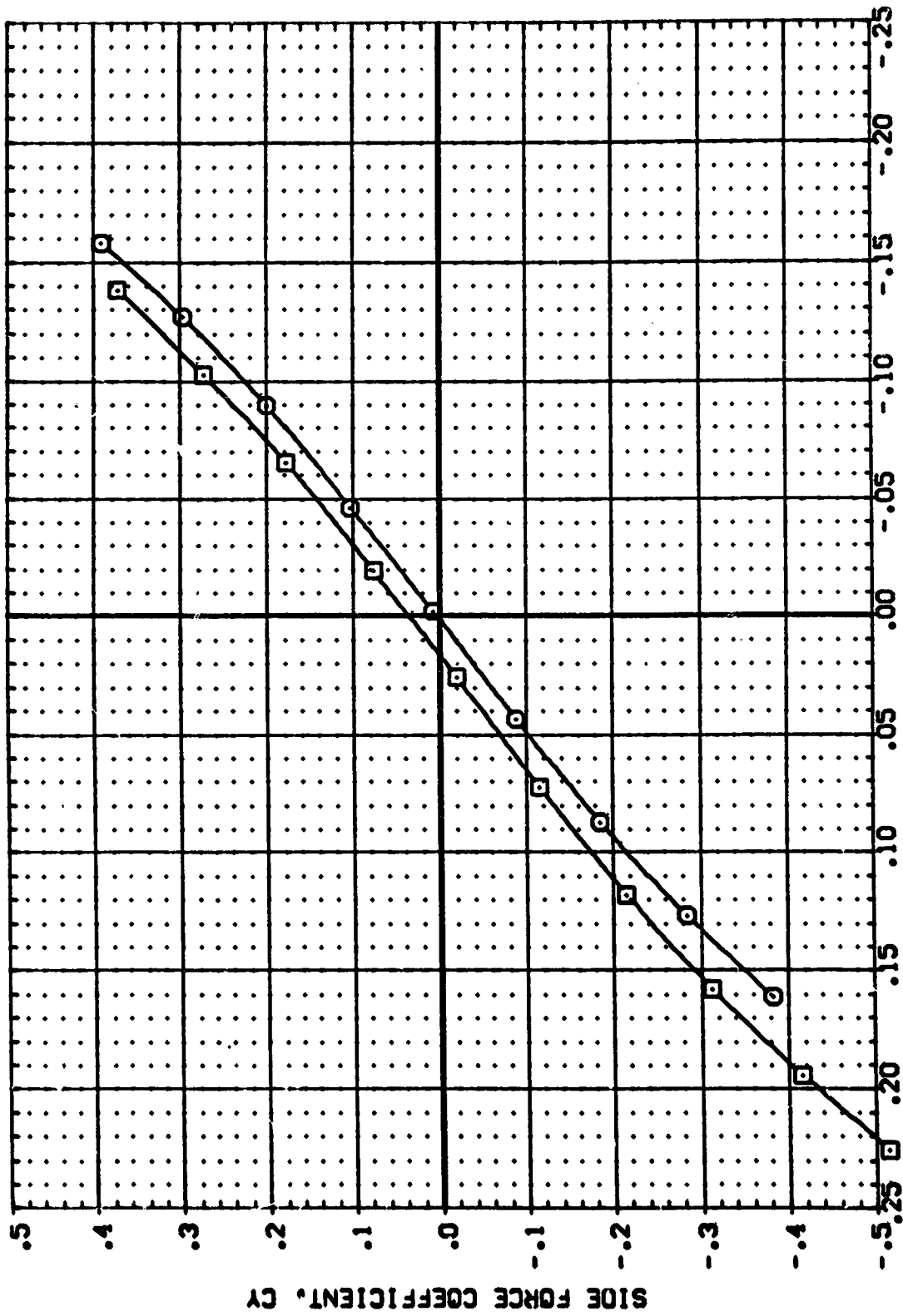
EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

$$(C)_{MACH} = .98$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (020003) LRC 8 TPT 657 [A1] TIPSIP201
 (020005) LRC 8 TPT 657 [A1] TIPSIP201

ALPHA RUDDER
 .000 .000
 .000 -20.000

REFERENCE INFORMATION
 SREF 2580.0000 50.FT
 LREF 1250.0000 IN-ES
 BREF 1250.0000 IN-ES
 XMRP 976.0000 IN-ES
 YMRP 400.0000 IN-ES
 ZMRP 400.0000 IN-ES
 SCALE .0150 SCALE



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

(C)MACH = 1.20

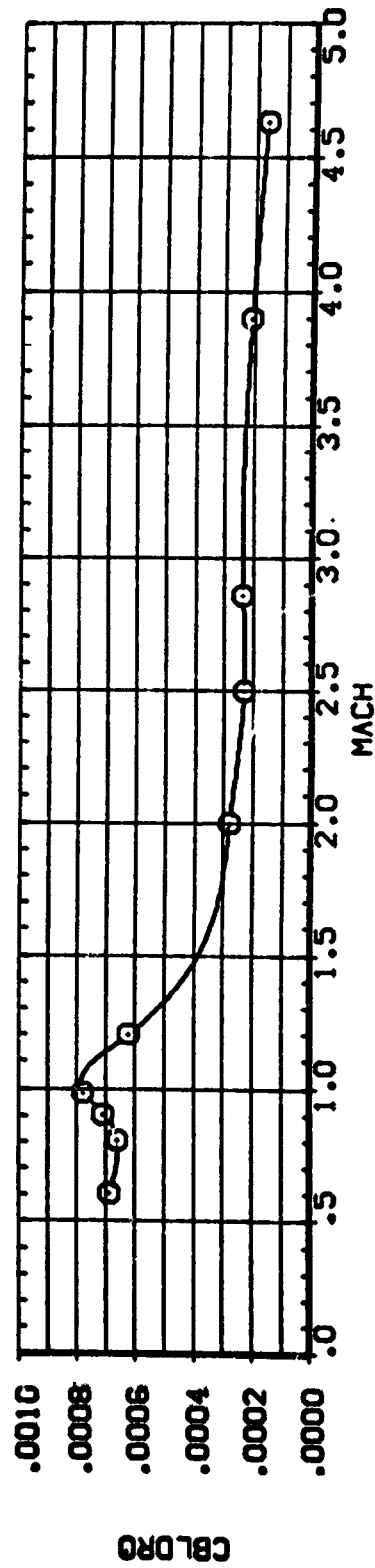
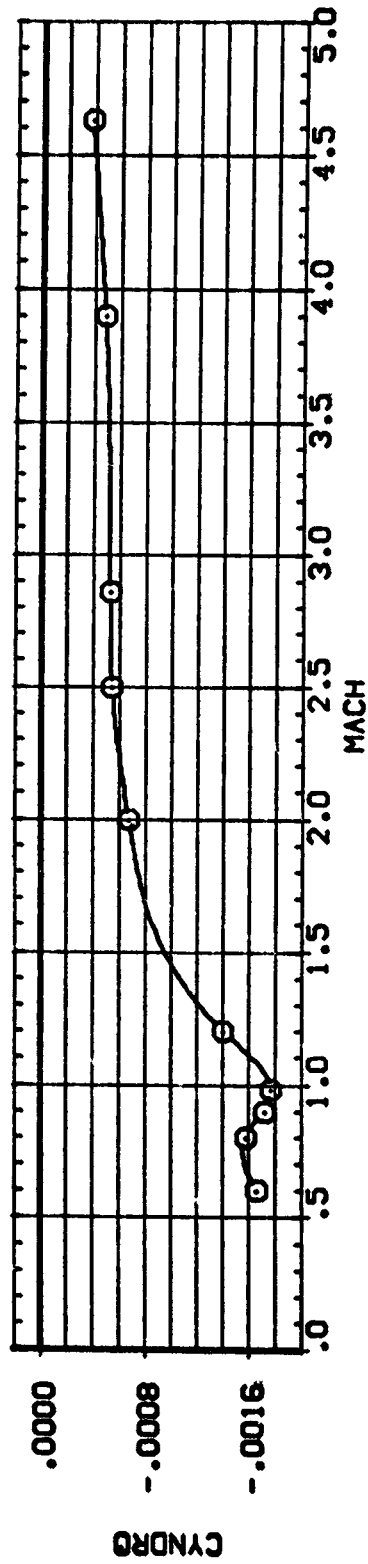
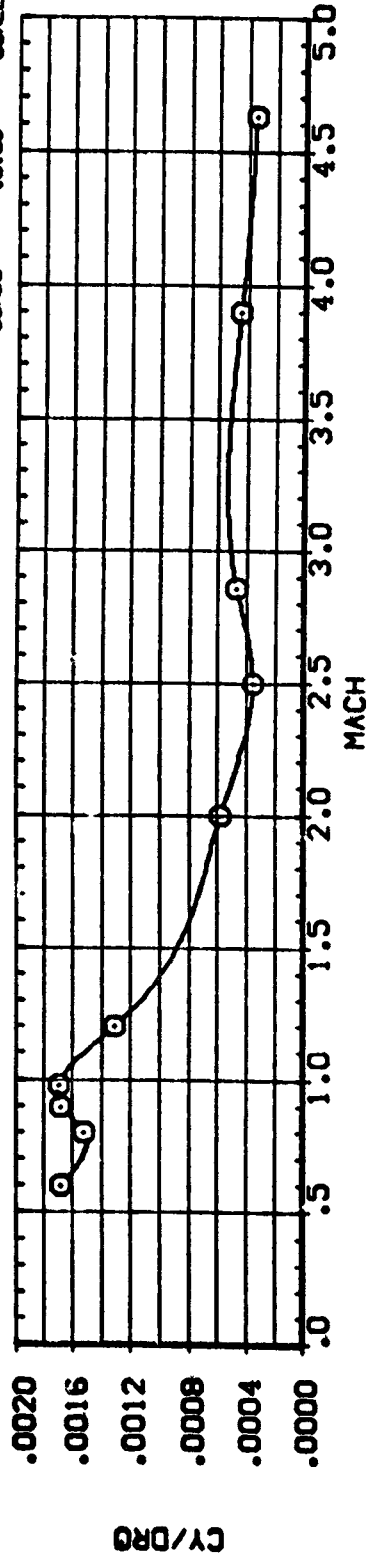


ARC TESTS 1A41 AND 1A42A/B TIP1S1P201

(F08003)

PARAMETRIC VALUES
D. TRLO -20.000 ALPHA .000

REFERENCE INFORMATION
SREF 2690.0000 SQ. FT.
LREF 1290.0000 INCHES
BREF 1290.0000 INCHES
XTRP 576.0000 INCHES
YTRP .0000 INCHES
ZTRP 400.0000 INCHES
SCALE .0150 SCALE



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECTIONAL CHARACTERISTICS

APPENDIX
TABULATED SOURCE DATA

Tabulations of plotted data are available
from DMS on request.

(R08001) (29 JAN 74)

LRC 8 TPT 667 IAA1 TIP181P201FR1

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 RUDDER = .000

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 5/0 RV/L = 3.19 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .599 | -11.936 | .00000 | -.79257 | .27083 | .32256 | .00194 | -.00485 | .00894 | -.71941 | .42890 | -1.67737 |
| .601 | -9.686 | .00000 | -.64393 | .27298 | .26143 | .00156 | -.00382 | .00815 | -.58831 | .37745 | -1.55996 |
| .603 | -7.369 | .00000 | -.50176 | .27262 | .20582 | .00094 | -.00161 | .00532 | -.46285 | .33473 | -1.38218 |
| .605 | -4.984 | .00000 | -.37162 | .26965 | .15704 | .00008 | .00038 | .00323 | -.34679 | .30092 | -1.15243 |
| .599 | -2.819 | .00000 | -.25430 | .26770 | .11478 | -.00045 | .00304 | -.00148 | -.24083 | .27988 | -.86048 |
| .600 | -.601 | .00000 | -.14363 | .26410 | .07415 | -.00049 | .00377 | -.00454 | -.14085 | .26559 | -.53030 |
| .600 | 1.685 | .00000 | -.02132 | .25674 | .02917 | -.00061 | .00376 | -.00765 | -.02886 | .25600 | -.11275 |
| .600 | 3.928 | .00000 | .09737 | .24854 | -.01328 | -.00336 | .00302 | -.00844 | .08012 | .25463 | .31467 |
| .600 | 6.219 | .00000 | .22170 | .23756 | -.05633 | -.00031 | .00321 | -.00882 | .19468 | .25998 | .74885 |
| .600 | 8.514 | .00000 | .35141 | .22453 | -.10401 | .00037 | .00232 | -.00570 | .31430 | .27408 | 1.14672 |
| .600 | 10.832 | .00000 | .48825 | .21403 | -.16191 | .00082 | .00230 | -.00449 | .43932 | .30198 | 1.45482 |
| GRADIENT | | .00000 | .05244 | -.00239 | -.01909 | -.00005 | .00027 | -.00133 | .04774 | -.00520 | .16501 |

RUN NO. 4/0 RV/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .600 | -11.449 | .00000 | -.76282 | .29821 | .30998 | .00202 | -.00399 | .00667 | -.68845 | .44369 | -1.55163 |
| .601 | -9.218 | .00000 | -.61469 | .29511 | .24968 | .00161 | -.00336 | .00624 | -.55948 | .38977 | -1.43542 |
| .603 | -6.930 | .00000 | -.47513 | .28976 | .19472 | .00097 | -.00221 | .00526 | -.43658 | .34512 | -1.26500 |
| .605 | -4.828 | .00000 | -.34384 | .28632 | .14314 | .00033 | -.00061 | .00318 | -.31852 | .31424 | -1.01362 |
| .600 | -2.575 | .00000 | -.21947 | .28133 | .09442 | -.00002 | .00082 | .00035 | -.20661 | .29090 | -.71024 |
| .600 | -.453 | .00000 | -.10297 | .27589 | .04895 | -.00038 | .00262 | -.00404 | -.10078 | .27669 | -.36424 |
| .600 | 1.740 | .00000 | .01670 | .26874 | -.00183 | .00017 | .00130 | -.00423 | .01053 | .26918 | .03912 |
| .799 | 3.940 | .00000 | .14319 | .26361 | -.04779 | .00020 | .00175 | -.00679 | .12474 | .27282 | .45722 |
| .800 | 6.154 | .00000 | .27695 | .25794 | -.09717 | .00031 | .00095 | -.00517 | .24770 | .28614 | .86567 |
| .799 | 8.326 | .00000 | .39791 | .25830 | -.14109 | .00099 | .00052 | -.00293 | .35631 | .31319 | 1.13766 |
| .799 | 10.557 | .00000 | .51767 | .26333 | -.18807 | .00104 | -.00082 | -.00037 | .46066 | .35372 | 1.50233 |
| GRADIENT | | .00000 | .05548 | -.00265 | -.02188 | -.00000 | .00024 | -.00112 | .05051 | -.00479 | .16889 |

LRC 8 TPT 667 1A41 T1P1S1P2C1FR1

(R00001) (29 JAN 74)

REFERENCE DATA

SREF = 2890.0000 50-FT. 3MRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES 1MRP = .0000 INCHES
 BREF = 1290.3000 INCHES 2MRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 3/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .899 | -11.762 | .00000 | -.81818 | .32742 | .33432 | .00296 | -.00469 | .00585 | -.73426 | .48733 | -1.50671 |
| .901 | -9.449 | .00000 | -.65062 | .32276 | .26454 | .00292 | -.00592 | .00906 | -.58880 | .42519 | -1.38481 |
| .903 | -7.209 | .00000 | -.48897 | .31933 | .19477 | .00208 | -.00464 | .00756 | -.44502 | .37817 | -1.17680 |
| .899 | -4.936 | .00000 | -.33386 | .31537 | .12993 | .00119 | -.00187 | .00373 | -.30349 | .34293 | -.89082 |
| .900 | -2.704 | .00000 | -.19440 | .31012 | .07399 | .00081 | .00106 | -.00055 | -.17956 | .31834 | -.56297 |
| .900 | -.455 | .00000 | -.05752 | .30254 | .01847 | .00054 | .00399 | -.00624 | -.05512 | .30299 | -.18191 |
| .900 | 1.755 | .00000 | .07572 | .29577 | -.04038 | -.00009 | .00437 | -.00940 | .06662 | .29795 | .22361 |
| .899 | 3.970 | .00000 | .20215 | .29423 | -.09245 | .00008 | .00391 | -.00979 | .18129 | .30752 | .58952 |
| .899 | 6.217 | .00000 | .31837 | .29763 | -.12369 | .00000 | .00188 | -.00729 | .28427 | .33036 | .86047 |
| .899 | 8.440 | .00000 | .45037 | .29860 | -.17822 | .00093 | -.00070 | -.00205 | .40167 | .36147 | 1.11122 |
| .898 | 10.644 | .00000 | .56005 | .29871 | -.21580 | .00089 | -.00110 | -.00099 | .49524 | .59701 | 1.24743 |
| GRADIENT | | .00000 | .06327 | -.00254 | -.02511 | -.00014 | .00067 | -.00161 | .05477 | -.00413 | .16825 |

RUN NO. 2/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|--------|---------|--------|---------|---------|---------|---------|---------|--------|----------|
| .981 | -12.079 | .00000 | -.87930 | .41083 | .33217 | .00149 | -.00079 | -.00018 | -.77385 | .58574 | -1.32115 |
| .979 | -9.747 | .00000 | -.69123 | .40557 | .27475 | .00140 | -.00269 | .00211 | -.61259 | .51674 | -1.18548 |
| .981 | -7.429 | .00000 | -.51911 | .40593 | .20554 | .00116 | -.00216 | .00343 | -.46226 | .46965 | -.98427 |
| .981 | -5.143 | .00000 | -.36386 | .40277 | .14704 | .00056 | .00047 | .00073 | -.32828 | .43394 | -.75652 |
| .979 | -2.801 | .00000 | -.22028 | .39468 | .09338 | -.00010 | .00339 | -.00339 | -.20073 | .40497 | -.49567 |
| .979 | -.558 | .00000 | -.09195 | .39425 | .05026 | -.00085 | .00717 | -.00963 | -.08610 | .39512 | -.22297 |
| .979 | 1.689 | .00000 | .05061 | .39395 | -.00667 | -.00098 | .00795 | -.01367 | .03898 | .39527 | .09862 |
| .979 | 3.925 | .00000 | .20255 | .39557 | -.08424 | -.00047 | .00472 | -.01156 | .17500 | .40850 | .42840 |
| .976 | 6.219 | .00000 | .34456 | .39109 | -.13879 | .00068 | .00017 | -.00494 | .30017 | .42611 | .70443 |
| .979 | 8.477 | .00000 | .47092 | .39288 | -.18089 | .00093 | -.00085 | -.00248 | .40786 | .45801 | .89049 |
| .979 | 10.713 | .00000 | .59379 | .38635 | -.23290 | .00137 | -.00038 | -.00082 | .51162 | .49000 | 1.04411 |
| GRADIENT | | .00000 | .06292 | .00011 | -.02630 | -.00006 | .00021 | -.00127 | .05593 | .00048 | .13796 |

LRC 8 TPT 667 1A41 T1P1S1P2C1FR1

(R00001) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 1/0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 9.00

| MCH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|-------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1.201 | -12.522 | .00000 | -.92734 | .46219 | .36131 | .00098 | .00242 | -.00404 | -.89507 | .65225 | -1.23431 |
| 1.201 | -10.088 | .00000 | -.71247 | .46008 | .26983 | .00098 | .00097 | -.00186 | -.62086 | .37777 | -1.07459 |
| 1.201 | -7.685 | .00000 | -.53306 | .45542 | .20264 | .00108 | .00042 | .00044 | -.46737 | .52282 | -.89428 |
| 1.201 | -5.304 | .00000 | -.37307 | .45186 | .14392 | .00065 | .00156 | .00009 | -.32971 | .48441 | -.68064 |
| 1.201 | -2.956 | .00000 | -.21231 | .44897 | .08336 | .00019 | .00237 | -.00078 | -.18888 | .45932 | -.41121 |
| 1.201 | -.627 | .00000 | -.06655 | .44628 | .02985 | -.00040 | .00348 | -.00469 | -.06166 | .44699 | -.13795 |
| 1.201 | 1.675 | .00000 | .07707 | .44312 | -.02361 | .00011 | .00173 | -.00346 | .08408 | .44519 | .14394 |
| 1.201 | 3.992 | .00000 | .21379 | .44255 | -.08046 | .00000 | .00118 | -.00708 | .18247 | .45636 | .39984 |
| 1.201 | 6.239 | .00000 | .34136 | .43687 | -.12821 | .00034 | .00061 | -.00468 | .29186 | .47138 | .61917 |
| 1.201 | 8.599 | .00000 | .47816 | .42317 | -.18720 | .00059 | .00149 | -.00349 | .40986 | .48962 | .83710 |
| 1.201 | 10.892 | .00000 | .59387 | .41714 | -.21752 | .00036 | .00008 | .00168 | .50471 | .52149 | .96783 |
| 1.201 | GRADIENT | .00000 | .06143 | -.00097 | -.02354 | -.00000 | -.00023 | -.00085 | .05356 | -.00046 | .11729 |

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TABULATED SOURCE DATA, LARC 8FT.-867 (1A-41)

(R08002) (29 JAN 74)

LRC 8 TPT 667 1A41 T1P1S1P201FR1

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

ALPHA = .000 RUDDER = .000

RUN NO. 10/ 0 RN/L = 3.20 GRADIENT INTERVAL = -5.00/ 5.00

| MICH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/O |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .600 | -10.939 | -36941 | -04838 | .27720 | .04184 | .06034 | -.17631 | .42861 | -.08660 | .27777 | -.31175 |
| .601 | -8.733 | -36663 | -09036 | .27617 | .04496 | .05142 | -.14863 | .34768 | -.08859 | .27674 | -.32011 |
| .602 | -6.555 | -37035 | -09669 | .27555 | .04948 | .04021 | -.11608 | .26499 | -.09492 | .27417 | -.34623 |
| .603 | -4.369 | -37732 | -10722 | .27113 | .05799 | .02715 | -.08035 | .17913 | -.10544 | .27163 | -.36788 |
| .604 | -2.190 | -39402 | -12013 | .26789 | .06590 | .01320 | -.04182 | .09265 | -.11829 | .26871 | -.44020 |
| .605 | -.029 | -40853 | -12801 | .26459 | .06817 | .00143 | -.00310 | .00829 | -.12612 | .26549 | -.47506 |
| .606 | 2.148 | -40887 | -12316 | .26673 | .06337 | -.00955 | .03461 | -.07409 | -.12125 | .26760 | -.45310 |
| .607 | 4.321 | -40773 | -11345 | .27070 | .05422 | -.02276 | .07418 | -.16011 | -.11152 | .27150 | -.41074 |
| .608 | 6.507 | -41367 | -10583 | .27462 | .04929 | -.03563 | .11105 | -.24653 | -.10384 | .27538 | -.37708 |
| .609 | 8.735 | -40981 | -09549 | .27717 | .03601 | -.04811 | .14777 | -.33699 | -.09350 | .27785 | -.33652 |
| .610 | 10.901 | -41701 | -09068 | .27872 | .02885 | -.03788 | .17854 | -.42050 | -.08865 | .27937 | -.31732 |
| GRADIENT | | -.00348 | -.00071 | -.00009 | -.00044 | -.00566 | .01775 | -.03892 | -.00070 | -.00008 | -.00270 |

RUN NO. 9/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

| MICH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/O |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .799 | -10.717 | -25310 | -06092 | .30026 | .02772 | .06546 | -.19543 | .45425 | -.05960 | .30032 | -.19631 |
| .800 | -8.555 | -25104 | -06177 | .29748 | .02893 | .05402 | -.16354 | .36718 | -.06047 | .29775 | -.20309 |
| .801 | -6.414 | -24856 | -06485 | .29213 | .03195 | .04301 | -.13057 | .28318 | -.06358 | .29241 | -.21745 |
| .799 | -4.281 | -25235 | -07184 | .28616 | .03609 | .03011 | -.09212 | .19298 | -.07058 | .28637 | -.24645 |
| .799 | -2.148 | -26435 | -08402 | .28134 | .04274 | .01524 | -.04879 | .10178 | -.08272 | .28173 | -.29363 |
| .800 | -.029 | -27328 | -09189 | .27666 | .04519 | .00228 | -.00623 | .01301 | -.09056 | .27710 | -.32681 |
| .799 | 2.112 | -27988 | -08767 | .27987 | .03921 | -.01067 | .03796 | -.07807 | -.08631 | .28029 | -.30791 |
| .799 | 4.246 | -27863 | -07435 | .28828 | .02709 | -.02532 | .08309 | -.17121 | -.07296 | .28664 | -.25453 |
| .799 | 6.385 | -27959 | -06273 | .29254 | .01589 | -.03916 | .12599 | -.26419 | -.06130 | .29284 | -.20934 |
| .799 | 8.518 | -28647 | -05880 | .29728 | .00977 | -.04959 | .16000 | -.35006 | -.05732 | .29757 | -.19262 |
| .799 | 10.685 | -29925 | -06235 | .29955 | .00830 | -.06217 | .19742 | -.44453 | -.06079 | .29987 | -.20272 |
| GRADIENT | | -.00320 | -.00040 | -.00005 | -.00101 | -.00642 | .02051 | -.04261 | -.00039 | -.00004 | -.00142 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 6FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 T1P1S1P201FRI

(R04002) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 6/ 0 RV/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .950 | -10.880 | -29753 | -.04328 | .34252 | .01594 | .07492 | -.22771 | .30209 | -.04150 | .34274 | -.12109 |
| .900 | -8.686 | -28450 | -.03482 | .33738 | .01075 | .06189 | -.19076 | .40641 | -.03314 | .33755 | -.09818 |
| .900 | -6.501 | -27312 | -.02908 | .32860 | .00680 | .04908 | -.15316 | .31358 | -.02752 | .32874 | -.08370 |
| .900 | -4.346 | -26988 | -.02769 | .31898 | .00416 | .03562 | -.11274 | .22083 | -.02619 | .31911 | -.08207 |
| .900 | -2.185 | -27411 | -.03521 | .31097 | .00857 | .01900 | -.06205 | .11994 | -.03372 | .31113 | -.10839 |
| .899 | -.008 | -28019 | -.04246 | .30356 | .01205 | .00270 | -.00475 | .01033 | -.04097 | .30377 | -.13489 |
| .899 | 2.126 | -28614 | -.03414 | .30994 | .00237 | -.01235 | .04696 | -.08927 | -.03259 | .31011 | -.10510 |
| .900 | 4.298 | -29252 | -.02322 | .31988 | -.00928 | -.02933 | .10112 | -.19416 | -.02158 | .32000 | -.06745 |
| .899 | 6.476 | -30385 | -.02419 | .32769 | -.01081 | -.04415 | .14759 | -.29362 | -.02246 | .32781 | -.06850 |
| .899 | 8.642 | -32284 | -.03046 | .33652 | -.00923 | -.05786 | .18991 | -.39140 | -.02856 | .33668 | -.08483 |
| .899 | 10.842 | -34336 | -.03950 | .34230 | -.00511 | -.06977 | .22668 | -.48888 | -.03745 | .34253 | -.10934 |
| GRADIENT | | -.00265 | .00046 | .00003 | -.00153 | -.00747 | .02485 | -.04811 | .00048 | .00003 | .00150 |

RUN NO. 7/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .981 | -11.039 | -36186 | -.05329 | .43202 | .03719 | .08829 | -.24433 | .54062 | -.05256 | .43236 | -.12157 |
| .981 | -8.770 | -35839 | -.05269 | .42717 | .03452 | .07263 | -.20098 | .42717 | -.05002 | .42749 | -.11701 |
| .981 | -6.580 | -35277 | -.05105 | .42238 | .03359 | .05760 | -.16000 | .32780 | -.04845 | .42269 | -.11462 |
| .981 | -4.378 | -35698 | -.05758 | .41486 | .03717 | .04019 | -.11384 | .22581 | -.05500 | .41521 | -.13246 |
| .980 | -2.194 | -36039 | -.06294 | .40438 | .03893 | .02131 | -.06191 | .12068 | -.06039 | .40476 | -.14921 |
| .980 | -.021 | -37381 | -.07260 | .39747 | .04276 | .00242 | -.00403 | .01032 | -.07001 | .39794 | -.17592 |
| .980 | 2.155 | -37811 | -.06609 | .40081 | .03508 | -.01537 | .05316 | -.09761 | -.06345 | .40124 | -.15813 |
| .979 | 4.338 | -38314 | -.05956 | .41043 | .02847 | -.03380 | .10757 | -.20479 | -.05681 | .41081 | -.13829 |
| .979 | 6.534 | -38650 | -.05364 | .42074 | .02348 | -.05142 | .15586 | -.31029 | -.05080 | .42110 | -.12053 |
| .978 | 8.726 | -39950 | -.05514 | .42601 | .02170 | -.06652 | .19752 | -.41105 | -.05217 | .42639 | -.12234 |
| .978 | 10.959 | -42731 | -.06214 | .43062 | .02043 | -.08102 | .24014 | -.51595 | -.05893 | .43108 | -.13670 |
| GRADIENT | | -.00322 | -.00033 | -.00057 | -.00098 | -.00848 | .02561 | -.04956 | -.00031 | -.00057 | -.00094 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

DATE 12 JUL 74

RR0002 (29 JAN 74)

LRC 6 TPT 667 IA41 T1P1S1P201FR1

PARAMETRIC DATA

REFERENCE DATA

ALPHA = .000 RUDDER = .000

SREF = 2895.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 6/0 RWL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLW | CBL | CYN | CY | CL | CD | L/D |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.202 | -8.940 | -.46753 | -.04565 | .46371 | .01700 | .06920 | -.16383 | .40082 | -.04186 | .46407 | -.09021 |
| 1.202 | -6.679 | -.44917 | -.03751 | .46108 | .01431 | .03496 | -.13458 | .30743 | -.03390 | .46136 | -.07347 |
| 1.203 | -4.444 | -.44190 | -.03797 | .45353 | .01922 | .03786 | -.09822 | .20902 | -.03447 | .45381 | -.07596 |
| 1.200 | -2.239 | -.43669 | -.03995 | .44325 | .01672 | .02001 | -.05203 | .11019 | -.03655 | .44554 | -.08254 |
| 1.199 | -.525 | -.44370 | -.04636 | .44257 | .02006 | .02245 | -.00483 | .01114 | -.04292 | .44292 | -.09690 |
| 1.200 | 2.176 | -.45012 | -.04328 | .44383 | .01370 | -.01492 | .04533 | -.08988 | -.03979 | .44415 | -.08958 |
| 1.200 | 4.387 | -.45996 | -.03660 | .45108 | .00737 | -.03247 | .09.78 | -.18974 | -.03298 | .45136 | -.07307 |
| 1.200 | 6.615 | -.47495 | -.03588 | .45658 | .00315 | -.04901 | .13155 | -.28783 | -.03210 | .45686 | -.07025 |
| 1.200 | 8.857 | -.49492 | -.03551 | .46053 | -.00240 | -.06437 | .16726 | -.38824 | -.03154 | .46082 | -.06843 |
| 1.200 | 11.144 | -.51861 | -.04214 | .46073 | -.00284 | -.07889 | .20025 | -.49048 | -.03796 | .46109 | -.08234 |
| 1.199 | | -.50024 | -.00003 | -.00029 | -.00076 | -.00795 | .02144 | -.04519 | -.00001 | -.00028 | -.05008 |

GRADIENT

TABULATED SOURCE DATA, LARC 8FT.-607 (1A-41)

DATE 12 JUL 74

(R00003) (29 JAN 74)

LRC 8 TPT 667 1A41 T P1S1P201

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

REFERENCE DATA

BREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 15/ 0 RN/L = 3.19 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .596 | -10.743 | -.36377 | -.09376 | .27287 | .04636 | .05886 | -.16766 | .41353 | -.09202 | .27346 | -.33649 |
| .599 | -8.711 | -.36061 | -.10316 | .27120 | .03234 | .05069 | -.14504 | .34151 | -.10136 | .27188 | -.37281 |
| .594 | -6.479 | -.37644 | -.11046 | .26834 | .03981 | .03987 | -.11368 | .26084 | -.10870 | .26906 | -.45400 |
| .596 | -4.362 | -.38219 | -.11957 | .26680 | .05713 | .02692 | -.07730 | .17545 | -.11779 | .26739 | -.44053 |
| .593 | -2.153 | -.40135 | -.13399 | .26442 | .07542 | .01310 | -.03886 | .08842 | -.13213 | .26536 | -.49793 |
| .595 | .084 | -.41764 | -.14501 | .26015 | .08075 | .00133 | -.00217 | .00667 | -.14311 | .26120 | -.54788 |
| .595 | 2.124 | -.41960 | -.14503 | .26188 | .07612 | -.01042 | .03684 | -.07652 | -.13911 | .26291 | -.52913 |
| .598 | 4.375 | -.41879 | -.12945 | .26535 | .05578 | -.02386 | .07576 | -.16599 | -.12731 | .26628 | -.47884 |
| .595 | 6.540 | -.40583 | -.11517 | .26747 | .05449 | -.03610 | .10977 | -.24815 | -.11328 | .26828 | -.42223 |
| .596 | 8.718 | -.41613 | -.10983 | .26936 | .04616 | -.04792 | .14460 | -.33348 | -.10787 | .27015 | -.39931 |
| .595 | 10.870 | -.41831 | -.10181 | .27170 | .03673 | -.05738 | .17294 | -.41282 | -.09982 | .27244 | -.36640 |
| GRADIENT | | -.00421 | -.00125 | -.00024 | -.00008 | -.00574 | .01752 | -.03899 | -.00123 | -.00022 | -.00502 |

RUN NO. 14/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .794 | -10.731 | -.25675 | -.07242 | .29377 | .03496 | .06413 | -.18960 | .44489 | -.07109 | .29410 | -.24174 |
| .794 | -8.567 | -.25647 | -.07355 | .29118 | .03656 | .05353 | -.15978 | .36240 | -.07225 | .29151 | -.24784 |
| .795 | -6.396 | -.26012 | -.08033 | .28696 | .04123 | .04266 | -.12808 | .27878 | -.07902 | .28732 | -.27504 |
| .794 | -4.308 | -.26379 | -.08828 | .28081 | .04649 | .03517 | -.09164 | .19222 | -.08699 | .28122 | -.30933 |
| .794 | -2.144 | -.27796 | -.10205 | .27629 | .05382 | .01518 | -.04832 | .10037 | -.10071 | .27678 | -.36386 |
| .794 | -.025 | -.28589 | -.11095 | .27149 | .05864 | .00211 | -.00487 | .01013 | -.10959 | .27204 | -.40285 |
| .794 | 2.118 | -.28808 | -.10842 | .27389 | .05325 | -.01126 | .04097 | -.08346 | -.10504 | .27442 | -.38277 |
| .795 | 4.240 | -.28664 | -.09338 | .27794 | .04113 | -.02543 | .08547 | -.17575 | -.09199 | .27840 | -.33041 |
| .794 | 6.365 | -.29073 | -.08576 | .28250 | .03200 | -.03894 | .12562 | -.26493 | -.08432 | .28293 | -.29803 |
| .794 | 8.531 | -.29539 | -.07907 | .28726 | .02389 | -.04967 | .15866 | -.35150 | -.07759 | .28767 | -.26973 |
| .793 | 10.643 | -.30363 | -.07645 | .29073 | .01820 | -.06113 | .19133 | -.43628 | -.07490 | .29113 | -.25729 |
| GRADIENT | | -.00262 | -.00069 | -.00038 | -.00052 | -.00644 | .02076 | -.04506 | -.00068 | -.00038 | -.00288 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

PAGE 8

LRC 8 TPT 667 1A41 T1P1S1P201

(R88003) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 460.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 13/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .893 | -10.776 | -.29601 | -.04761 | .33155 | .01757 | .07179 | -.21819 | .48724 | -.04590 | .33179 | -.13833 |
| .894 | -8.607 | -.28555 | -.04154 | .32651 | .01406 | .06002 | -.18446 | .39584 | -.03992 | .32671 | -.12215 |
| .894 | -6.470 | -.27867 | -.03920 | .31895 | .01233 | .04775 | -.14867 | .30681 | -.03765 | .31904 | -.11800 |
| .894 | -4.347 | -.27613 | -.03917 | .31064 | .01124 | .03411 | -.10858 | .21476 | -.03767 | .31082 | -.12120 |
| .894 | -2.167 | -.28237 | -.04902 | .30333 | .01750 | .01801 | -.05860 | .11424 | -.04752 | .30356 | -.15655 |
| .894 | .025 | -.28992 | -.05953 | .30007 | .02493 | .00213 | -.00317 | .00809 | -.05801 | .30037 | -.19313 |
| .893 | 2.153 | -.30011 | -.05568 | .30389 | .01777 | -.01301 | .04963 | -.09444 | -.05409 | .30418 | -.17781 |
| .893 | 4.349 | -.30241 | -.04410 | .30758 | .00527 | -.02962 | .10415 | -.20134 | -.04247 | .30781 | -.13798 |
| .893 | 6.545 | -.31143 | -.04167 | .31528 | .00108 | -.04406 | .14774 | -.29770 | -.03995 | .31550 | -.12663 |
| .893 | 6.654 | -.32733 | -.04533 | .32328 | .00079 | -.03762 | .18765 | -.39151 | -.04349 | .32354 | -.13441 |
| .894 | 10.859 | -.34399 | -.04870 | .33050 | -.00027 | -.06893 | .22157 | -.48463 | -.04672 | .33079 | -.14123 |
| GRADIENT | | -.00324 | -.00076 | -.00026 | -.00053 | -.00730 | .02458 | -.04794 | -.00075 | -.00025 | -.00254 |

RUN NO. 12/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .980 | -11.017 | -.36530 | -.05972 | .42691 | .03943 | .08665 | -.23530 | .52840 | -.05700 | .42728 | -.13340 |
| .981 | -6.780 | -.36599 | -.05694 | .42387 | .03552 | .07157 | -.19552 | .42182 | -.05423 | .42423 | -.12784 |
| .981 | -6.596 | -.36831 | -.05305 | .41472 | .03183 | .05682 | -.15552 | .32229 | -.05045 | .41505 | -.12156 |
| .980 | -4.396 | -.35855 | -.05798 | .40508 | .03447 | .05901 | -.10983 | .22140 | -.05544 | .40543 | -.13675 |
| .980 | -2.212 | -.36712 | -.06973 | .39863 | .04239 | .02033 | -.05769 | .11604 | -.06717 | .39907 | -.16832 |
| .979 | -.030 | -.37863 | -.08290 | .39506 | .05140 | .00210 | -.00191 | .00776 | -.06029 | .39560 | -.20295 |
| .979 | 2.128 | -.38331 | -.07845 | .39709 | .04546 | -.01560 | .03458 | -.10000 | -.07580 | .39761 | -.19063 |
| .980 | 4.347 | -.38898 | -.06744 | .40216 | .03293 | -.03378 | .10833 | -.20825 | -.06470 | .40260 | -.16071 |
| .979 | 6.530 | -.39287 | -.06240 | .41179 | .02849 | -.05113 | .15372 | -.30977 | -.05958 | .41220 | -.14453 |
| .978 | 8.710 | -.40446 | -.06307 | .41661 | .02606 | -.06636 | .19380 | -.40875 | -.06013 | .41704 | -.14418 |
| .978 | 10.931 | -.42364 | -.06502 | .42029 | .02211 | -.08092 | .23594 | -.51271 | -.06191 | .42076 | -.14714 |
| GRADIENT | | -.00353 | -.00126 | -.00034 | -.00000 | -.00832 | .02513 | -.04927 | -.00124 | -.00032 | -.00321 |

RUN NO. 11/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.200 | -8.922 | -.46678 | -.04454 | .45916 | .01575 | .06755 | -.15766 | .39109 | -.04079 | .45951 | -.08878 |
| 1.201 | -6.681 | -.45053 | -.04057 | .45465 | .01548 | .05347 | -.12691 | .29802 | -.03699 | .45496 | -.08130 |
| 1.201 | -4.437 | -.44579 | -.04440 | .44784 | .01939 | .03850 | -.08958 | .20069 | -.04091 | .44817 | -.09129 |
| 1.201 | -2.233 | -.44547 | -.04761 | .44177 | .02141 | .01867 | -.04600 | .10264 | -.04417 | .44213 | -.09991 |
| 1.201 | -.030 | -.45015 | -.05108 | .44011 | .02326 | .00202 | -.00215 | .00741 | -.04762 | .44050 | -.10810 |
| 1.201 | 2.167 | -.45941 | -.05071 | .43989 | .01992 | -.01443 | .04382 | -.08846 | -.04718 | .44028 | -.10717 |
| 1.201 | 4.376 | -.47008 | -.04649 | .44328 | .01284 | -.03140 | .08700 | -.18498 | -.04285 | .44365 | -.09659 |
| 1.200 | 6.607 | -.47801 | -.04120 | .44813 | .00587 | -.04805 | .12672 | -.28385 | -.03746 | .44846 | -.08353 |
| 1.201 | 8.859 | -.49519 | -.03764 | .45338 | -.00200 | -.06327 | .16087 | -.38262 | -.03372 | .45369 | -.07432 |
| GRADIENT | | -.00284 | -.00033 | -.00050 | -.00066 | -.00767 | .02011 | -.04370 | -.00031 | -.00049 | -.00081 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

(R08004) (29 JAN 74)

LRC 8 TPT 667 IA41 T1P1S1P200

DATE 10 JUL 74

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 26/ 0 RV/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| WICH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .599 | -12.002 | -.01414 | -.82844 | .26531 | .34672 | .00260 | -.00441 | .00824 | -.75516 | .43176 | -1.74893 |
| .600 | -9.504 | -.02236 | -.67244 | .26685 | .28336 | .00154 | -.00441 | .01051 | -.61915 | .37422 | -1.65451 |
| .601 | -7.305 | -.01393 | -.53128 | .26619 | .22772 | .00080 | -.00127 | .00511 | -.49312 | .33158 | -1.48715 |
| .599 | -4.972 | -.01208 | -.39828 | .26357 | .17540 | -.00008 | .00084 | .00256 | -.37195 | .29692 | -1.25269 |
| .599 | -2.787 | -.00145 | -.27695 | .26186 | .13125 | -.00061 | .00399 | .00342 | -.25389 | .27502 | -.95954 |
| .599 | -.496 | .00636 | -.15871 | .25946 | .08724 | -.00108 | .00518 | -.00673 | -.15645 | .26083 | -.59983 |
| .599 | 1.842 | .02034 | -.03183 | .25420 | .03861 | -.00102 | .00558 | -.01099 | -.03998 | .25304 | -.15801 |
| .600 | 4.094 | .02264 | .09320 | .24668 | -.00716 | -.00077 | .00526 | -.01132 | .07535 | .25271 | .29816 |
| .598 | 6.340 | .01973 | .22018 | .23509 | -.05095 | -.00035 | .00470 | -.01002 | .19287 | .23797 | .74766 |
| .600 | 8.613 | .01733 | .34820 | .22423 | -.09920 | -.00020 | .00460 | -.00926 | .30871 | .27355 | 1.12854 |
| .600 | 10.883 | .01255 | .48222 | .21202 | -.19603 | .00013 | .00468 | -.00801 | .43352 | .29925 | 1.44870 |
| GRADIENT | | .00401 | .05378 | -.00182 | -.02011 | -.00007 | .00046 | -.00155 | .04914 | -.00484 | .17159 |

RUN NO. 25/ 0 RV/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| WICH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .799 | -11.301 | -.00777 | -.78405 | .29361 | .32584 | .00134 | -.00361 | .00641 | -.71131 | .44156 | -1.61089 |
| .800 | -9.051 | -.00675 | -.63186 | .29021 | .26502 | .00174 | -.00372 | .00610 | -.57834 | .38601 | -1.49826 |
| .800 | -6.938 | -.00937 | -.50055 | .28505 | .21324 | .00135 | -.00357 | .00694 | -.46234 | .34358 | -1.34563 |
| .799 | -4.790 | -.00757 | -.36580 | .28040 | .15990 | .00093 | -.00189 | .00464 | -.34133 | .30972 | -1.10205 |
| .799 | -2.577 | -.00320 | -.24159 | .27622 | .11117 | .00042 | .00018 | .00102 | -.22892 | .26680 | -.79817 |
| .799 | -.344 | .00515 | -.11703 | .27103 | .08218 | -.00028 | .00357 | -.00334 | -.11540 | .27173 | -.42471 |
| .799 | 1.805 | .01327 | .00330 | .26463 | .01163 | -.00041 | .00427 | -.00904 | -.00504 | .26460 | -.01905 |
| .799 | 4.027 | .01770 | .13027 | .26075 | -.00561 | -.00030 | .00371 | -.01016 | .11164 | .26925 | .41463 |
| .799 | 6.273 | .01509 | .26319 | .25468 | -.08603 | -.00003 | .00322 | -.00875 | .23578 | .28212 | .83572 |
| .799 | 8.390 | .01187 | .38288 | .25632 | -.12813 | .00032 | .00364 | -.00796 | .34138 | .30545 | 1.10319 |
| .799 | 10.564 | .00571 | .50314 | .25957 | -.17655 | .00032 | .00287 | -.00644 | .44899 | .34777 | 1.29105 |
| GRADIENT | | .00305 | .05639 | -.00232 | -.02236 | -.00015 | .00070 | -.00181 | .05151 | -.00470 | .17380 |

LRC 8 TPT 667 1A41 T1P1S1P201

(000004) (29 JAN 74)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 24/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .899 | -11.633 | -.00839 | -.83609 | .32745 | .34907 | .00246 | -.00419 | .00881 | -.75289 | .48931 | -1.53867 |
| .901 | -9.351 | -.01006 | -.66272 | .32342 | .27382 | .00232 | -.00482 | .00794 | -.60104 | .42878 | -1.40173 |
| .899 | -7.147 | -.00793 | -.50167 | .31882 | .20489 | .00166 | -.00307 | .00356 | -.45811 | .37876 | -1.20949 |
| .899 | -4.847 | -.00330 | -.34991 | .31347 | .14253 | .00104 | .00035 | .00141 | -.32217 | .34191 | -.94226 |
| .900 | -2.650 | .00051 | -.20581 | .30869 | .08333 | .00052 | .00305 | -.00309 | -.13131 | .31788 | -.60184 |
| .900 | -.369 | .00633 | -.06371 | .30291 | .02567 | .00024 | .00490 | -.00676 | -.06376 | .30333 | -.21020 |
| .899 | 1.846 | .01644 | .07314 | .29487 | -.03762 | -.00013 | .00358 | -.01053 | .06361 | .29708 | .21412 |
| .899 | 4.083 | .02293 | .20066 | .28391 | -.08976 | -.00082 | .00347 | -.01275 | .17923 | .30745 | .58294 |
| .899 | 6.298 | .01681 | .31565 | .29596 | -.12075 | -.00059 | .00332 | -.00870 | .28127 | .32880 | .85545 |
| .899 | 8.593 | .01186 | .44006 | .29825 | -.16702 | .00050 | .00220 | -.00602 | .39083 | .36036 | 1.08454 |
| .899 | 10.746 | .01242 | .55559 | .29948 | -.20670 | .00083 | .00155 | -.00561 | .49001 | .39782 | 1.23175 |
| GRADIENT | | .00324 | .06173 | -.00237 | -.02619 | -.00020 | .00056 | -.00160 | .05626 | -.00401 | .17295 |

RUN NO. 23/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|----------|
| .980 | -12.000 | -.00020 | -.69662 | .41122 | .36455 | .00181 | -.00205 | .00202 | -.79152 | .58866 | -1.34462 |
| .980 | -9.612 | .00007 | -.69927 | .40609 | .28350 | .00114 | -.00107 | .00101 | -.62165 | .51714 | -1.20208 |
| .981 | -7.309 | -.00326 | -.52641 | .40288 | .21340 | .00068 | .00113 | -.00010 | -.47088 | .46658 | -1.00922 |
| .980 | -4.966 | -.00552 | -.36677 | .39731 | .15250 | .00020 | .00272 | -.00094 | -.33100 | .42757 | -.77414 |
| .980 | -2.781 | -.00151 | -.23235 | .39416 | .10305 | -.00057 | .00562 | -.00493 | -.21315 | .40498 | -.52632 |
| .980 | -.473 | .00893 | -.09674 | .39390 | .05714 | -.00119 | .00842 | -.01075 | -.09348 | .39469 | -.23685 |
| .979 | 1.825 | .02031 | .04842 | .39323 | -.00219 | -.00126 | .00875 | -.01450 | .03587 | .39457 | .59092 |
| .980 | 4.032 | .02471 | .19469 | .39932 | -.07604 | -.00099 | .00618 | -.01337 | .16612 | .41222 | .40300 |
| .980 | 6.340 | .01817 | .33934 | .39534 | -.13200 | -.00030 | .00264 | -.00803 | .29361 | .43039 | .68219 |
| .980 | 8.557 | .01306 | .47084 | .39309 | -.17775 | .00007 | .00183 | -.00572 | .40712 | .45877 | .88740 |
| .980 | 10.810 | .00809 | .59162 | .38856 | -.22810 | .00093 | .00179 | -.00419 | .50825 | .49263 | 1.03171 |
| GRADIENT | | .00365 | .06211 | .00015 | -.02487 | -.00014 | .00045 | -.00153 | .05900 | -.00182 | .13149 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

DATE 12 JUL 74

(RQ0004) (29 JAN 74)

LRC 8 TPT 667 IA41 T1P1S1P2C1

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 94.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = .000 RUDDER = .000

RUN NO. 22/ 0 RIN/L = 2.10 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLW | CBL | CYN | CY | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--------|----------|
| 1.200 | -12.356 | .00659 | -.93438 | .45772 | .35926 | .00046 | .00483 | -.00640 | -.81479 | .64706 | -1.25922 |
| 1.201 | -9.982 | .00221 | -.72464 | .45404 | .27958 | .00034 | .00232 | -.00282 | -.63497 | .57277 | -1.10859 |
| 1.201 | -7.595 | -.00151 | -.54503 | .45005 | .21082 | .00046 | .00236 | -.00186 | -.48077 | .51814 | -.92787 |
| 1.201 | -5.183 | -.00588 | -.38497 | .44637 | .15203 | .00029 | .00373 | -.00202 | -.34307 | .47932 | -.71574 |
| 1.200 | -2.934 | -.00407 | -.22782 | .44181 | .09210 | .00008 | .00522 | -.00393 | -.20490 | .45289 | -.45243 |
| 1.200 | -.522 | .00567 | -.06746 | .44086 | .03100 | -.00057 | .00584 | -.00709 | -.06345 | .44146 | -.14372 |
| 1.200 | 1.809 | .02038 | .07664 | .43994 | -.02280 | -.00079 | .00522 | -.01037 | .06271 | .44214 | .14184 |
| 1.200 | 4.096 | .02211 | .21007 | .43970 | -.07884 | -.00032 | .00206 | -.00781 | .17812 | .43558 | .39271 |
| 1.201 | 6.402 | .01925 | .35121 | .43243 | -.13261 | -.00043 | .00343 | -.00838 | .30080 | .46890 | .64151 |
| 1.201 | 8.632 | .01090 | .47919 | .42092 | -.18776 | .00013 | .00365 | -.00640 | .41059 | .48008 | .84123 |
| 1.201 | 10.945 | -.00401 | .59447 | .41594 | -.21729 | -.00030 | .00237 | -.00119 | .50468 | .52125 | -.96822 |
| 1.200 | GRADIENT | .00399 | .56226 | -.00031 | -.02420 | -.00004 | -.00043 | -.00064 | .05447 | .00009 | .12049 |

LRC 0 TPT 667 IA41 TIP1SIP201

(R00005) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 21/ 0 RV/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| .998 | -10.696 | -36238 | -06495 | .27711 | .04947 | .04618 | -.13761 | .38681 | -.09318 | .27771 | -.33553 |
| .999 | -8.769 | -37000 | -10364 | .27786 | .05766 | .03674 | -.11139 | .30920 | -.10185 | .27852 | -.36567 |
| .999 | -6.511 | -37266 | -11422 | .27859 | .06841 | .02519 | -.07909 | .22612 | -.11240 | .27933 | -.40240 |
| .999 | -4.352 | -38453 | -12715 | .27818 | .07830 | .01256 | -.04357 | .14239 | -.12528 | .27903 | -.44898 |
| .998 | -2.181 | -40018 | -14056 | .27580 | .08671 | -.00057 | -.00657 | .05671 | -.13863 | .27678 | -.50088 |
| .999 | -.006 | -41059 | -14887 | .27340 | .09189 | -.01195 | .02936 | -.02361 | -.14691 | .27446 | -.53526 |
| .999 | 2.171 | -42162 | -14933 | .27486 | .08881 | -.02448 | .07061 | -.11230 | -.14730 | .27596 | -.53378 |
| .5 .8 | 4.335 | -41894 | -13824 | .27925 | .07878 | -.03933 | .11272 | -.20112 | -.13619 | .28025 | -.46595 |
| .600 | 6.486 | -41078 | -12341 | .28270 | .06723 | -.05319 | .15101 | -.28731 | -.12138 | .28358 | -.42803 |
| .999 | 8.760 | -41488 | -11574 | .28359 | .05720 | -.06356 | .18242 | -.37202 | -.11368 | .28442 | -.39969 |
| .998 | 10.691 | -41846 | -10936 | .28713 | .04997 | -.06904 | .20163 | -.44371 | -.10726 | .28792 | -.37255 |
| GRADIENT | | -.00416 | -.00143 | .00005 | .00014 | -.00588 | .01794 | -.03940 | -.00140 | .00007 | -.00492 |

RUN NO. 20/ 0 RV/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .800 | -10.731 | -25977 | -.07401 | .29865 | .03852 | .05514 | -.16814 | .42549 | -.07266 | .29899 | -.24302 |
| .801 | -8.573 | -25720 | -.07622 | .29871 | .04210 | .04416 | -.13759 | .34109 | -.07488 | .29905 | -.25039 |
| .800 | -6.365 | -25973 | -.08567 | .29681 | .05082 | .03057 | -.09953 | .24989 | -.08432 | .29720 | -.28372 |
| .800 | -4.309 | -26322 | -.09592 | .29375 | .05839 | .01677 | -.06057 | .16197 | -.09456 | .29419 | -.32143 |
| .801 | -2.124 | -27674 | -.10778 | .28964 | .06310 | .00220 | -.01757 | .07024 | -.10638 | .29015 | -.36663 |
| .800 | -.034 | -28413 | -.11737 | .28545 | .07092 | -.01105 | .02828 | -.01988 | -.11593 | .28602 | -.40539 |
| .800 | 2.099 | -29009 | -.11514 | .28828 | .06651 | -.02534 | .07435 | -.11558 | -.11368 | .28886 | -.39353 |
| .800 | 4.268 | -29075 | -.10501 | .29457 | .05690 | -.04122 | .12385 | -.21481 | -.10351 | .29510 | -.35077 |
| .800 | 6.365 | -29157 | -.09490 | .30017 | .04711 | -.05465 | .16442 | -.30465 | -.09337 | .30064 | -.31056 |
| .800 | 8.528 | -29692 | -.08956 | .30363 | .03987 | -.06387 | .19310 | -.38536 | -.08799 | .30409 | -.28935 |
| .799 | 10.729 | -.30733 | -.08856 | .30790 | .03507 | -.07440 | .22417 | -.47144 | -.08691 | .30838 | -.28182 |
| GRADIENT | | -.00301 | -.00119 | .00002 | -.00008 | -.00671 | .02155 | -.04594 | -.00118 | .00003 | -.00399 |

TABULATED SOURCE DATA, LARC 9FT.-667 (1A-41)

(R00005) (29 JAN 74)

LRC 8 TPT 667 1A41 T1P1S1P201

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

REFERENCE C.T.A

SREF = 2690.0000 94.FT. XMRP = 976.0000 INCHES
 LREF = 1290.0000 INCHES YMRP = .0000 INCHES
 BREF = 1290.0000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 19/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| .900 | -10.094 | -.30030 | -.05009 | .33824 | .02114 | .06351 | -.20279 | .47613 | -.04832 | .33850 | -.14274 |
| .901 | -8.700 | -.28961 | -.04408 | .33644 | .01855 | .05250 | -.16642 | .38103 | -.04237 | .33666 | -.12587 |
| .902 | -6.471 | -.27793 | -.04140 | .33062 | .01877 | .03744 | -.12435 | .28267 | -.03980 | .33081 | -.12030 |
| .903 | -4.266 | -.27555 | -.04350 | .32464 | .02038 | .02094 | -.07797 | .18418 | -.04194 | .32484 | -.12911 |
| .904 | -2.187 | -.27896 | -.05213 | .31805 | .02659 | .00444 | -.02737 | .08398 | -.05058 | .31830 | -.15892 |
| .905 | -.016 | -.28695 | -.06190 | .31567 | .03343 | -.01175 | .03005 | -.02367 | -.06032 | .31598 | -.19590 |
| .906 | 2.146 | -.29607 | -.05869 | .32074 | .02764 | -.02843 | .08678 | -.13067 | -.05704 | .32104 | -.17766 |
| .907 | 4.365 | -.30274 | -.05132 | .32659 | .01859 | -.04580 | .14401 | -.24070 | -.04959 | .32686 | -.15172 |
| .899 | 6.515 | -.31379 | -.05226 | .33547 | .01744 | -.06043 | .18706 | -.33428 | -.05043 | .33575 | -.15019 |
| .899 | 8.638 | -.32859 | -.05489 | .34320 | .01639 | -.07222 | .22244 | -.42462 | -.05292 | .34351 | -.15405 |
| .900 | 10.815 | -.34844 | -.06101 | .35050 | .01711 | -.08241 | .25378 | -.51569 | -.05887 | .35087 | -.16780 |
| GRADIENT | | -.00331 | -.00101 | .00032 | -.00013 | -.00769 | .02580 | -.04923 | -.00099 | .00032 | -.00290 |

RUN NO. 17/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|--------|--------|---------|---------|---------|---------|--------|---------|
| .980 | -11.020 | -.36483 | -.06262 | .42978 | .04338 | .07324 | -.20967 | .50478 | -.05989 | .43017 | -.13921 |
| .981 | -8.771 | -.36035 | -.05804 | .42860 | .03986 | .05930 | -.16818 | .39598 | -.05534 | .42896 | -.12902 |
| .978 | -6.617 | -.34874 | -.05642 | .41900 | .03962 | .04257 | -.12494 | .29375 | -.05387 | .41934 | -.12847 |
| .979 | -4.375 | -.35012 | -.06239 | .41381 | .04433 | .02404 | -.07664 | .18929 | -.05986 | .41419 | -.14453 |
| .979 | -2.224 | -.36383 | -.07911 | .41091 | .05664 | .00560 | -.02402 | .08440 | -.07650 | .41141 | -.18594 |
| .979 | -.029 | -.37192 | -.08791 | .40765 | .06235 | -.01347 | .03328 | -.02625 | -.08326 | .40821 | -.20887 |
| .978 | 2.118 | -.37607 | -.08469 | .41078 | .05802 | -.03153 | .09025 | -.13410 | -.08199 | .41133 | -.19933 |
| .978 | 4.357 | -.38065 | -.07413 | .41776 | .04685 | -.05046 | .14631 | -.24485 | -.07136 | .41824 | -.17061 |
| .980 | 6.541 | -.38964 | -.07250 | .43025 | .04515 | -.06869 | .19421 | -.34685 | -.06958 | .43073 | -.16153 |
| .978 | 8.742 | -.39519 | -.07049 | .43497 | .04196 | -.08285 | .23205 | -.44585 | -.06749 | .43544 | -.15499 |
| .979 | 10.932 | -.42124 | -.07569 | .43858 | .03924 | -.09590 | .27064 | -.54576 | -.07246 | .43913 | -.16502 |
| GRADIENT | | -.00336 | -.00132 | .00036 | .00028 | -.00854 | .02569 | -.04984 | -.00129 | .00037 | -.00297 |

LRC 8 TPT 667 IA41 TIP1S1P201

(R00005) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 PREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 10/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|-------|----------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.201 | -8.934 | -.46209 | -.04518 | .46206 | .01664 | .05897 | -.13839 | .37318 | -.04145 | .46241 | -.08964 |
| 1.201 | -6.636 | -.44711 | -.04366 | .45852 | .02087 | .04270 | -.10284 | .27346 | -.04008 | .45885 | -.08735 |
| 1.201 | -4.439 | -.43991 | -.04671 | .45292 | .02502 | .02531 | -.06485 | .17751 | -.04323 | .45326 | -.09538 |
| 1.201 | -2.163 | -.43897 | -.05131 | .44733 | .02885 | .00677 | -.01923 | .07698 | -.04789 | .44771 | -.10696 |
| 1.201 | -.032 | -.44667 | -.05737 | .44769 | .03301 | -.01037 | .02569 | -.01869 | -.05388 | .44812 | -.12024 |
| 1.201 | 2.174 | -.45972 | -.05864 | .44915 | .03065 | -.02709 | .07229 | -.11496 | -.05504 | .44961 | -.12241 |
| 1.201 | 4.399 | -.45922 | -.04965 | .45292 | .02208 | -.04514 | .11799 | -.21546 | -.04602 | .45330 | -.10153 |
| 1.201 | 6.572 | -.47270 | -.04815 | .45793 | .01748 | -.06199 | .15793 | -.31235 | -.04437 | .45631 | -.09682 |
| 1.201 | 8.912 | -.48783 | -.04351 | .46302 | .00897 | -.07825 | .19403 | -.41532 | -.03957 | .46337 | -.08538 |
| 1.200 | 11.164 | -.51413 | -.05164 | .46656 | .01031 | -.09205 | .22564 | -.51453 | -.04745 | .46701 | -.10160 |
| 1.201 | GRADIENT | -.00269 | -.00060 | .00208 | -.00019 | -.00796 | .02077 | -.04442 | -.00058 | .00009 | -.00126 |

TABULATED SOURCE DATA, LARC 8F1-667 (1A-41)

(R00006) (29 JAN 74)

LRC 8 TPT 667 1A41 TAP6S1P201

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 31/ 0 RN/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .599 | -11.733 | -.01532 | -.80187 | .26324 | .33880 | .00246 | -.00512 | .00824 | -.73118 | .42276 | -1.72953 |
| .599 | -9.371 | -.01607 | -.65672 | .26629 | .27952 | .00143 | -.00371 | .00808 | -.60459 | .36967 | -1.65548 |
| .599 | -7.172 | -.01168 | -.52044 | .26602 | .22542 | .00044 | -.00027 | .00353 | -.48315 | .32891 | -1.46896 |
| .601 | -4.856 | -.00558 | -.38868 | .26324 | .17385 | -.00046 | .00232 | -.00067 | -.36500 | .29519 | -1.23649 |
| .599 | -2.615 | -.00227 | -.26667 | .26258 | .12761 | -.00062 | .00326 | -.00249 | -.25441 | .27447 | -.92690 |
| .599 | -.378 | .01149 | -.14915 | .25356 | .08282 | -.00097 | .00554 | -.00849 | -.14743 | .26034 | -.56631 |
| .599 | 1.945 | .02130 | -.02360 | .25358 | .07422 | -.00096 | .00578 | -.01145 | -.03239 | .25262 | -.12822 |
| .600 | 4.318 | .02676 | .10069 | .24579 | -.01081 | -.00098 | .00585 | -.01303 | .08189 | .25267 | .32411 |
| .599 | 6.458 | .02284 | .22132 | .23520 | -.05316 | -.00051 | .00483 | -.01101 | .19346 | .25860 | .74810 |
| .600 | 8.707 | .01926 | .33149 | .22413 | -.10372 | -.00018 | .00487 | -.01005 | .31351 | .27476 | 1.14102 |
| .601 | 10.968 | .01332 | .49357 | .21166 | -.16391 | .00017 | .00411 | -.00774 | .44429 | .30170 | 1.47263 |
| GRADIENT | | .00385 | .05332 | -.00192 | -.02020 | -.00006 | .00042 | -.00147 | .04871 | -.00464 | .17126 |

RUN NO. 30/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .799 | -11.433 | -.00616 | -.78360 | .29297 | .32856 | .00127 | -.00278 | .00501 | -.70297 | .44249 | -1.60450 |
| .800 | -9.037 | -.00576 | -.62541 | .28918 | .26436 | .00181 | -.00349 | .00551 | -.57223 | .38382 | -1.49087 |
| .799 | -6.790 | -.00646 | -.48536 | .28330 | .20828 | .00138 | -.00301 | .00531 | -.44846 | .33870 | -1.32405 |
| .799 | -4.695 | -.00748 | -.35769 | .28003 | .15741 | .00109 | -.00216 | .00487 | -.33357 | .30837 | -1.08173 |
| .800 | -2.489 | -.00201 | -.22870 | .27340 | .10580 | .00034 | .00055 | .00022 | -.21652 | .28507 | -.75955 |
| .799 | -.256 | .00591 | -.10985 | .27091 | .05837 | -.00033 | .00370 | .00075 | -.10864 | .27140 | -.40029 |
| .799 | 1.900 | .01736 | .00833 | .26437 | .00813 | -.00063 | .00513 | -.01139 | -.00044 | .26450 | -.00166 |
| .799 | 4.195 | .01878 | .14210 | .26033 | -.04037 | -.00035 | .00370 | -.01057 | .12267 | .27002 | .45429 |
| .799 | 6.359 | .01433 | .27091 | .25468 | -.08918 | .00012 | .00287 | -.00812 | .24103 | .28312 | .85135 |
| .799 | 8.511 | .01061 | .39497 | .25749 | -.13607 | .00066 | .00284 | -.00672 | .33251 | .31311 | 1.12582 |
| .799 | 10.676 | .00998 | .51098 | .26041 | -.18172 | .00041 | .00259 | -.00627 | .45389 | .35056 | 1.29475 |
| GRADIENT | | .00324 | .05578 | -.00227 | -.02225 | -.00017 | .00073 | -.00191 | .05091 | -.00438 | .17280 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

PAGE 16

LRC 8 TPT 667 1A41 T4F6S1P201

(R08006) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 29/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
| .950 | -11.546 | -.00426 | -.82270 | .32722 | .34580 | .00244 | -.00355 | .00482 | -.74055 | .48527 | -1.52805 |
| .901 | -9.239 | -.00807 | -.65225 | .32426 | .27086 | .00236 | -.00476 | .00723 | -.59173 | .42477 | -1.39304 |
| .900 | -6.963 | -.00719 | -.48853 | .31738 | .20025 | .00166 | -.00264 | .00489 | -.44645 | .37426 | -1.19287 |
| .950 | -4.686 | -.00409 | -.33662 | .31276 | .13656 | .00107 | .00048 | .00088 | -.30994 | .33922 | -.91370 |
| .920 | -2.446 | -.00086 | -.19151 | .30690 | .07692 | .00061 | .00343 | -.00357 | -.17824 | .31479 | -.56821 |
| .899 | -.246 | .00788 | -.03268 | .30211 | .02063 | .00039 | .00512 | -.00748 | -.05159 | .30233 | -.16998 |
| .900 | 1.932 | .01824 | .08439 | .29507 | -.04321 | -.00031 | .00588 | -.01158 | .07429 | .29778 | .24947 |
| .900 | 4.208 | .02223 | .21231 | .29414 | -.09636 | -.00056 | .00513 | -.01219 | .19015 | .30892 | .61554 |
| .899 | 6.483 | .01642 | .32786 | .29591 | -.12832 | -.00026 | .00272 | -.00800 | .29235 | .33104 | .88315 |
| .899 | 8.598 | .01004 | .44849 | .29898 | -.17287 | .00101 | .00115 | -.00442 | .39875 | .36267 | 1.09947 |
| .899 | 10.783 | .00990 | .55893 | .30044 | -.21122 | .00084 | -.00019 | -.00311 | .49286 | .39971 | 1.23303 |
| GRADIENT | | .00315 | .06192 | -.00221 | -.02641 | -.00019 | .00033 | -.00154 | .05646 | -.00349 | .17460 |

RUN NO. 28/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| | | | | | | | | | | | |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|----------|
| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
| .978 | -11.966 | .00322 | -.88668 | .40534 | .36200 | .00171 | -.00146 | .00041 | -.78337 | .58037 | -1.34976 |
| .979 | -9.547 | .00121 | -.68914 | .40249 | .27943 | .00109 | -.00128 | .00086 | -.61284 | .51121 | -1.19879 |
| .981 | -7.171 | -.00275 | -.51308 | .39995 | .20797 | .00088 | .00062 | .00024 | -.45914 | .46087 | -.99626 |
| .980 | -4.907 | -.00275 | -.35668 | .39520 | .14778 | .07011 | .00356 | -.00258 | -.32156 | .42426 | -.75794 |
| .979 | -2.687 | -.00043 | -.21966 | .39001 | .09660 | -.00034 | .00513 | -.00479 | -.20113 | .39988 | -.50298 |
| .979 | 1.327 | .01222 | -.08661 | .39028 | .05169 | -.00127 | .00913 | -.01242 | -.08405 | .39084 | -.21505 |
| .980 | 4.165 | .02089 | .05700 | .39050 | -.00792 | -.00122 | .00923 | -.01513 | .04384 | .39219 | .11179 |
| .980 | 6.401 | .02611 | .20790 | .39612 | -.08276 | -.00124 | .00755 | -.01512 | .17859 | .41017 | .43540 |
| .979 | 8.691 | .01599 | .35132 | .39195 | -.14165 | -.00002 | .00226 | -.00701 | .30543 | .42868 | .71249 |
| .978 | 10.904 | .01268 | .48471 | .38739 | -.18840 | .00045 | .00194 | -.00573 | .42060 | .45619 | .92200 |
| .977 | | .01023 | .60008 | .38365 | -.23266 | .00039 | .00493 | -.00786 | .51667 | .49024 | 1.05391 |
| GRADIENT | | .00348 | .06177 | .00010 | -.02485 | -.00016 | .00033 | -.00156 | .05471 | -.00157 | .13190 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-387 (1A-41)

PAGE 17

LRC 6 TPT 667 1A41 74P6SIP201

(RQ8006) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 27/ 0 RNVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|--------|---------|---------|--------|----------|
| 1.201 | -12.416 | .01133 | -.94443 | .43789 | .37725 | .00000 | .00324 | -.00807 | -.82389 | .65024 | -1.26706 |
| 1.201 | -9.903 | .00371 | -.72585 | .43398 | .28402 | .00036 | .00287 | -.00427 | -.63696 | .57205 | -1.11346 |
| 1.201 | -7.395 | -.00125 | -.53610 | .44958 | .21083 | .00041 | .00209 | -.00167 | -.47377 | .51484 | -.92022 |
| 1.201 | -5.080 | -.00496 | -.37782 | .44323 | .15163 | .00036 | .00332 | -.00187 | -.33691 | .47693 | -.70641 |
| 1.201 | -2.757 | -.00051 | -.21730 | .44135 | .08966 | -.00026 | .00503 | -.00468 | -.19582 | .45129 | -.43392 |
| 1.201 | -.457 | .00941 | -.06144 | .44131 | .02952 | -.00048 | .00521 | -.00747 | -.05792 | .44179 | -.11310 |
| 1.201 | 1.855 | .02303 | .08483 | .44046 | -.02660 | -.00122 | .00798 | -.01371 | .07053 | .44298 | .15923 |
| 1.201 | 4.165 | .02686 | .22055 | .43997 | -.08402 | -.00110 | .00588 | -.01271 | .18785 | .45489 | .41296 |
| 1.201 | 6.482 | .01824 | .35786 | .43105 | -.13695 | -.00063 | .00478 | -.00941 | .30691 | .46869 | .65483 |
| 1.201 | 8.685 | .01109 | .48579 | .42064 | -.19346 | -.00009 | .00388 | -.00367 | .41600 | .48907 | .85061 |
| 1.201 | 11.009 | -.00700 | .60499 | .41616 | -.22458 | -.00061 | .00433 | -.00227 | .51439 | .52403 | .98160 |
| 1.201 | GRADIENT | .00414 | .06309 | -.00022 | -.02494 | -.00014 | .00023 | -.00131 | .05529 | .00052 | .12234 |

DATE 12 JUL 74

(R00007) (29 JAN 74)

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

LRC 8 TPT 667 IA41 TAP6S1P201

PARAMETRIC DATA

REFERENCE DATA

ALPHA = .000 RUDDER = .000

SREF = 2690.0000 SQ.FT. ORP = 976.0000 INCHES
 LREF = 1290.3000 INCHES WREF = .0000 INCHES
 BREF = 1290.3000 INCHES ZREF = 400.0000 INCHES
 SCALE = .0130 SCALE

RUN NO. 36/ 0 RVL = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .601 | -10.922 | -.38010 | -.09714 | .27263 | .04686 | .05905 | -.17310 | .41788 | -.09533 | .27327 | -.34886 |
| .601 | -8.745 | -.38616 | -.10484 | .27034 | .05254 | .05092 | -.14895 | .34292 | -.10302 | .27104 | -.38008 |
| .601 | -6.566 | -.38543 | -.11163 | .26778 | .05914 | .04041 | -.11802 | .26437 | -.10983 | .26892 | -.40901 |
| .601 | -4.384 | -.39014 | -.12185 | .26608 | .06834 | .02719 | -.07974 | .17697 | -.12003 | .26690 | -.44972 |
| .601 | -2.218 | -.41003 | -.13538 | .26366 | .07541 | .01367 | -.04222 | .09263 | -.13349 | .26462 | -.50446 |
| .601 | -.030 | -.42493 | -.14590 | .26045 | .08112 | .00165 | -.00366 | .00899 | -.14396 | .26153 | -.55046 |
| .601 | 2.132 | -.42775 | -.14289 | .26142 | .07703 | -.01018 | .03638 | -.07707 | -.14093 | .26248 | -.53692 |
| .601 | 4.292 | -.41816 | -.12903 | .26465 | .06628 | -.02292 | .07425 | -.16036 | -.12709 | .26559 | -.47853 |
| .601 | 6.485 | -.41835 | -.11913 | .26687 | .05601 | -.03573 | .11066 | -.24594 | -.11717 | .26773 | -.43765 |
| .601 | 8.671 | -.41824 | -.10891 | .26878 | .04602 | -.04768 | .14633 | -.33083 | -.10895 | .26957 | -.39673 |
| .601 | 10.864 | -.42944 | -.10456 | .27203 | .03816 | -.05701 | .17607 | -.41334 | -.10252 | .27280 | -.37580 |
| GRADIENT | | -.0034C | -.00101 | -.00024 | -.00011 | -.00572 | .01781 | -.03891 | -.00100 | -.00022 | -.00417 |

RUN NO. 35/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .601 | -10.720 | -.26535 | -.07359 | .29371 | .03436 | .06434 | -.19511 | .44739 | -.07222 | .29405 | -.24561 |
| .601 | -8.567 | -.26158 | -.07466 | .29133 | .03656 | .05320 | -.16324 | .36378 | -.07333 | .29167 | -.25142 |
| .601 | -6.449 | -.26312 | -.08043 | .28731 | .04126 | .04298 | -.13190 | .28197 | -.07911 | .28768 | -.27499 |
| .601 | -4.300 | -.26836 | -.08905 | .28126 | .04641 | .03055 | -.09472 | .19488 | -.08773 | .28167 | -.31146 |
| .601 | -2.174 | -.27685 | -.09892 | .27573 | .05183 | .01538 | -.04989 | .10127 | -.09759 | .27620 | -.35332 |
| .601 | -.024 | -.28822 | -.11064 | .27131 | .05816 | .00219 | -.00530 | .01042 | -.10928 | .27187 | -.40195 |
| .601 | 2.105 | -.29374 | -.10746 | .27421 | .05315 | -.01068 | .04001 | -.08122 | -.10605 | .27475 | -.38599 |
| .799 | 4.230 | -.29216 | -.09533 | .27876 | .04183 | -.02524 | .08615 | -.17575 | -.09390 | .27924 | -.33828 |
| .801 | 6.376 | -.29441 | -.08594 | .28311 | .03201 | -.03882 | .12750 | -.26564 | -.08449 | .28355 | -.29796 |
| .801 | 8.517 | -.29892 | -.07939 | .28818 | .02424 | -.04921 | .16037 | -.34984 | -.07788 | .28859 | -.26988 |
| .799 | 10.667 | -.30807 | -.07725 | .29244 | .01872 | -.06143 | .19658 | -.44050 | -.07567 | .29285 | -.25840 |
| GRADIENT | | -.00302 | -.00099 | -.00031 | -.00037 | -.00645 | .02116 | -.04329 | -.00098 | -.00030 | -.00387 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

DATE 12 JUL 74

(R00007) (29 JAN 74)

LRC 8 TPT 667 IA41 74F6S1P201

PARAMETRIC DATA

REFERENCE DATA

ALPHA = .000 RUDDER = .000

SREF = 2090.5000 SQ.FT. XREF = 976.0000 INCHES
 LREF = 1290.3000 INCHES YREF = .0000 INCHES
 BREF = 1296.3000 INCHES ZREF = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 34/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .900 | -10.868 | -.31288 | -.05295 | .33644 | .01896 | .07289 | -.22572 | .49267 | -.05111 | .33673 | -.15178 |
| .900 | -8.678 | -.30332 | -.04687 | .33107 | .01531 | .06073 | -.19005 | .39994 | -.04513 | .33132 | -.13620 |
| .900 | -6.513 | -.28696 | -.04053 | .32243 | .01218 | .04879 | -.15375 | .31139 | -.03892 | .32263 | -.12062 |
| .900 | -4.356 | -.26313 | -.04019 | .31333 | .01099 | .03507 | -.11230 | .21732 | -.03864 | .31352 | -.12324 |
| .900 | -2.198 | -.28335 | -.04629 | .30608 | .01566 | .01846 | -.08095 | .11634 | -.04478 | .30631 | -.14619 |
| .900 | -.029 | -.29432 | -.05744 | .30303 | .02259 | .00271 | -.00426 | .01017 | -.05589 | .30332 | -.18425 |
| .899 | 2.121 | -.30049 | -.05214 | .30668 | .01535 | -.01251 | .04948 | -.09338 | -.05053 | .30695 | -.16463 |
| .900 | 4.282 | -.30543 | -.04265 | .31110 | .00455 | -.02890 | .10365 | -.19776 | -.04099 | .31132 | -.13168 |
| .899 | 6.443 | -.31525 | -.04227 | .31837 | .05179 | -.04360 | .14778 | -.29293 | -.04052 | .31860 | -.12717 |
| .899 | 10.795 | -.33441 | -.04668 | .32618 | .00597 | -.05737 | .18889 | -.38792 | -.04478 | .32645 | -.13716 |
| | | -.34987 | -.04897 | .33300 | -.00098 | -.06876 | .22394 | -.48093 | -.04693 | .33329 | -.14081 |
| | | -.05286 | -.00050 | -.00018 | -.00063 | -.00736 | .02511 | -.04815 | -.00049 | -.00017 | -.00164 |

RUN NO. 33/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .980 | -10.986 | -.38517 | -.06511 | .42404 | .03725 | .08529 | -.23882 | .52248 | -.06225 | .42447 | -.14686 |
| .980 | -8.792 | -.37101 | -.05659 | .42143 | .03262 | .07149 | -.19876 | .42280 | -.05386 | .42179 | -.12770 |
| .980 | -6.589 | -.35903 | -.05240 | .41045 | .02966 | .05631 | -.15792 | .32282 | -.04983 | .41077 | -.12130 |
| .981 | -4.412 | -.35928 | -.05726 | .40255 | .03284 | .03896 | -.11150 | .22182 | -.05473 | .40290 | -.13585 |
| .980 | -2.212 | -.36688 | -.06901 | .39489 | .04076 | .02065 | -.09983 | .11808 | -.06648 | .39532 | -.16816 |
| .980 | -.050 | -.38052 | -.08325 | .39177 | .05032 | .00224 | -.00251 | .00838 | -.08065 | .39231 | -.20557 |
| .980 | 2.146 | -.38743 | -.08056 | .39386 | .04543 | -.01539 | .05417 | -.09897 | -.07790 | .39440 | -.19751 |
| .979 | 4.319 | -.38612 | -.06606 | .39906 | .03170 | -.03315 | .10762 | -.20526 | -.06337 | .39950 | -.15862 |
| .980 | 6.520 | -.39755 | -.06401 | .41022 | .02834 | -.05051 | .15406 | -.30705 | -.06116 | .41066 | -.14893 |
| .980 | 8.721 | -.41087 | -.06272 | .41862 | .02433 | -.06602 | .19455 | -.40598 | -.05972 | .41906 | -.14250 |
| .980 | 10.927 | -.43227 | -.06514 | .42366 | .02045 | -.08074 | .23725 | -.51203 | -.06194 | .42414 | -.14603 |
| | | -.00340 | -.00134 | -.00037 | .00011 | -.00826 | .02551 | -.04909 | -.00132 | -.00036 | -.00345 |

(R08007) (29 JAN 74)

LRC 8 TPT 667 1A41 T4P6S1P208

PARAMETRIC DATA

REFERENCE DATA

ALPHA = .000 RUDDER = .000

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

RUN NO. 32/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | BETA | ALPHA | CN | CA | CLN | CBL | CYN | CY | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.200 | -8.924 | -.46759 | -.04226 | .45904 | .01297 | .06846 | -.16366 | .39681 | -.03852 | .45937 | -.06385 |
| 1.201 | -6.687 | -.45644 | -.04269 | .45421 | .01578 | .05384 | -.13178 | .30173 | -.03907 | .45454 | -.08595 |
| 1.201 | -4.445 | -.44948 | -.04497 | .44764 | .01877 | .03689 | -.09289 | .20354 | -.04145 | .44798 | -.09253 |
| 1.205 | -2.230 | -.44812 | -.04805 | .44163 | .02095 | .01881 | -.04792 | .10382 | -.04460 | .44199 | -.10790 |
| 1.200 | -.542 | -.45444 | -.05248 | .44017 | .02340 | .00251 | -.00373 | .00936 | -.04899 | .44057 | -.11119 |
| 1.201 | 2.175 | -.46327 | -.05110 | .44039 | .01919 | -.01404 | .04392 | -.08803 | -.04753 | .44079 | -.10784 |
| 1.200 | 4.361 | -.46821 | -.04435 | .44375 | .01118 | -.03121 | .08831 | -.18487 | -.04073 | .44410 | -.09172 |
| 1.200 | 6.576 | -.47858 | -.04111 | .44850 | .00566 | -.04782 | .12893 | -.28286 | -.03736 | .44883 | -.06325 |
| 1.200 | 8.845 | -.49774 | -.03864 | .45350 | -.00180 | -.06320 | .16395 | -.38198 | -.03470 | .45382 | -.07645 |
| 1.200 | 9.974 | -.50957 | -.04002 | .45487 | -.00375 | -.07084 | .18238 | -.43378 | -.03597 | .45321 | -.07903 |
| 1.199 | GRADIENT | -.00239 | -.00008 | -.00041 | -.00077 | -.00768 | .02063 | -.04400 | -.00007 | -.00041 | -.00024 |

LARC 67-667 1A41 12P4S1P201

(R08008) (29 JAN 74)

REFERENCE DATA

SREF = 269C.0000 S.S.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 41/ 0 RNL = 3.10 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .599 | -10.337 | -.37936 | -.09796 | .27227 | .04739 | .09914 | -.16811 | .41801 | -.09615 | .27292 | -.33230 |
| .600 | -8.773 | -.38081 | -.10331 | .27058 | .05230 | .05131 | -.14622 | .34666 | -.10151 | .27126 | -.37423 |
| .599 | -6.572 | -.38512 | -.11175 | .26741 | .05904 | .04017 | -.11411 | .28249 | -.10995 | .26816 | -.41024 |
| .600 | -4.426 | -.39041 | -.12221 | .26545 | .06035 | .02762 | -.07922 | .17992 | -.12040 | .26628 | -.43216 |
| .600 | -2.216 | -.40068 | -.13173 | .26310 | .07447 | .01334 | -.03967 | .08955 | -.12989 | .26401 | -.49198 |
| .599 | -.033 | -.43366 | -.14963 | .26056 | .08169 | .00194 | -.00379 | .00995 | -.14766 | .26169 | -.56425 |
| .599 | 2.140 | -.42669 | -.14157 | .26204 | .07578 | -.01054 | .03689 | -.07971 | -.13961 | .26309 | -.53067 |
| .599 | 4.297 | -.42347 | -.13109 | .26510 | .06648 | -.02282 | .07248 | -.16011 | -.12913 | .26606 | -.48533 |
| .599 | 6.488 | -.41425 | -.11674 | .26735 | .05478 | -.03565 | .10773 | -.24415 | -.11480 | .26819 | -.42806 |
| .600 | 8.682 | -.42101 | -.10992 | .26937 | .04578 | -.04778 | .14310 | -.33160 | -.10794 | .27017 | -.39953 |
| .600 | 10.867 | -.42621 | -.10299 | .27256 | .03764 | -.05715 | .17144 | -.41248 | -.10096 | .27332 | -.36937 |
| GRADIENT | | -.00423 | -.00127 | -.00008 | -.00011 | -.00572 | .01743 | -.03896 | -.00125 | -.00006 | -.00484 |

RUN NO. 40/ 0 RNL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .799 | -10.739 | -.26433 | -.07377 | .29257 | .03437 | .06425 | -.18998 | .44612 | -.07222 | .29290 | -.24658 |
| .800 | -8.595 | -.26206 | -.07475 | .29070 | .03623 | .05310 | -.15917 | .36278 | -.07342 | .29104 | -.25227 |
| .800 | -6.439 | -.26365 | -.08170 | .28608 | .04185 | .04253 | -.12764 | .27828 | -.08038 | .28645 | -.28060 |
| .799 | -4.312 | -.27036 | -.09046 | .28050 | .04680 | .03034 | -.09195 | .19315 | -.08914 | .28092 | -.31731 |
| .799 | -2.166 | -.27638 | -.09957 | .27560 | .05261 | .01535 | -.04845 | .10069 | -.09824 | .27607 | -.35594 |
| .799 | -.045 | -.29041 | -.11265 | .27138 | .05943 | .00220 | -.00456 | .01007 | -.11128 | .27195 | -.40918 |
| .799 | 2.089 | -.29160 | -.10753 | .27453 | .05386 | -.01108 | .04074 | -.08347 | -.15594 | .27507 | -.38512 |
| .800 | 4.234 | -.29337 | -.09661 | .27853 | .04267 | -.02540 | .08545 | -.17644 | -.09518 | .27902 | -.34112 |
| .799 | 6.358 | -.29140 | -.08475 | .28357 | .03190 | -.03892 | .12486 | -.26439 | -.08330 | .28400 | -.29332 |
| .800 | 8.493 | -.29692 | -.07806 | .28859 | .02374 | -.04934 | .15699 | -.34863 | -.07657 | .28879 | -.26513 |
| .799 | 10.674 | -.30729 | -.07666 | .29248 | .01837 | -.06145 | .19203 | -.43905 | -.07509 | .29289 | -.25639 |
| GRADIENT | | -.00287 | -.00094 | -.00023 | -.00033 | -.00646 | .02080 | -.04325 | -.00092 | -.00022 | -.00359 |

STABILATED SOURCE DATA. LARC 8FT.-667 (IA-41)

(29 JAN 74)

LRC 8 YPT 667 1A41 T2P4S1P201

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YARP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YARP = .0000 INCHES
 SREF = 1290.3000 INCHES ZARP = 400.0000 INCHES
 SCALE = .0150 SCALE

39/0 FV/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/O |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .901 | -10.891 | -.31867 | -.05573 | .33576 | .01970 | .07299 | -.22251 | .49354 | -.05386 | .33607 | -.16027 |
| .903 | -8.696 | -.30281 | -.04811 | .32914 | .01582 | .06037 | -.18658 | .39882 | -.04637 | .32939 | -.14078 |
| .899 | -6.547 | -.28944 | -.04304 | .32110 | .01336 | .04838 | -.15096 | .31044 | -.04142 | .32131 | -.12889 |
| .899 | -4.386 | -.28342 | -.04113 | .31283 | .01155 | .03504 | -.11085 | .21921 | -.03958 | .31303 | -.12644 |
| .899 | -2.212 | -.28697 | -.04044 | .30550 | .01611 | .01861 | -.06023 | .11736 | -.04691 | .30574 | -.15344 |
| .899 | -.048 | -.29761 | -.05941 | .30258 | .02307 | .00257 | -.09321 | .00896 | -.05784 | .30289 | -.19796 |
| .899 | 2.102 | -.30386 | -.05468 | .30660 | .01652 | .01249 | .04952 | .09378 | -.05306 | .30688 | -.17289 |
| .899 | 4.273 | -.30515 | -.04330 | .31042 | .00477 | .02893 | .10259 | .19750 | -.04164 | .31065 | -.13405 |
| .899 | 6.427 | -.31468 | -.04122 | .31802 | .00069 | .04379 | .14623 | .29274 | -.03947 | .31825 | -.12402 |
| .899 | 8.612 | -.33219 | -.04423 | .32682 | -.00066 | -.05772 | .18720 | .38906 | -.04234 | .32707 | -.12944 |
| .899 | 10.792 | -.35681 | -.05222 | .33315 | -.00019 | -.07353 | .22104 | .48032 | -.05014 | .33347 | -.15036 |
| .899 | nn278 | -.00049 | -.00000 | -.00017 | -.00061 | -.00735 | .02481 | -.04829 | -.09048 | -.00017 | -.09161 |

RUN NO. 38/0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/O |
|------|---------|---------|---------|--------|--------|---------|---------|---------|---------|---------|---------|
| .980 | -11.019 | -.39130 | -.06329 | .42111 | .03477 | .08508 | -.23576 | .52005 | -.08241 | .42154 | -.14806 |
| .980 | -8.818 | -.37582 | -.05930 | .41622 | .03236 | .07101 | -.19808 | .41906 | -.03657 | .41660 | -.13578 |
| .979 | -8.599 | -.36485 | -.05323 | .40795 | .02987 | .05617 | -.15553 | .32025 | -.03263 | .40829 | -.12889 |
| .980 | -4.421 | -.36290 | -.05932 | .39866 | .03276 | .05879 | -.10872 | .21879 | -.03679 | .39902 | -.14233 |
| .980 | -2.230 | -.37232 | -.07330 | .39301 | .04286 | .02032 | -.05666 | .11444 | -.07074 | .39348 | -.17978 |
| .979 | -.072 | -.38017 | -.08275 | .38928 | .04924 | .00225 | -.00172 | .00832 | -.08016 | .38983 | -.20564 |
| .979 | 2.118 | -.38662 | -.07793 | .39045 | .04202 | -.01556 | .05411 | -.09955 | -.07529 | .39096 | -.19257 |
| .979 | 4.307 | -.38867 | -.06654 | .39670 | .03062 | -.03301 | .10511 | -.20216 | -.06385 | .39714 | -.16078 |
| .979 | 6.493 | -.39579 | -.06172 | .40472 | .02490 | -.04971 | .15040 | -.30147 | -.03692 | .40513 | -.14544 |
| .979 | 8.691 | -.41158 | -.06114 | .41457 | .02106 | -.06530 | .19180 | -.40098 | -.03816 | .41500 | -.14016 |
| .979 | 10.892 | -.43270 | -.06433 | .41578 | .01699 | -.07991 | .23375 | -.50495 | -.06119 | .41825 | -.14700 |
| .977 | 12.002 | -.45087 | -.06783 | .42024 | .00924 | -.09823 | .02470 | -.04843 | -.00085 | -.00029 | -.00227 |

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

(R00000) (29 JAN 74)

LRC 8 TPT 667 1A41 T2P4S1P20C

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

RUN NO. 37/ 0 RVL = 2.12 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | BETA | ALPHA | CN | CA | CLW | CBL | CYN | CY | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.201 | -8.925 | -.45759 | -.04423 | .44509 | .01477 | .06825 | -.16327 | .39464 | -.04067 | .44543 | -.09131 |
| 1.202 | -6.692 | -.44584 | -.04444 | .44122 | .01785 | .05338 | -.12869 | .29743 | -.04101 | .44155 | -.09287 |
| 1.203 | -4.474 | -.43532 | -.04472 | .43538 | .02005 | .03632 | -.08872 | .19894 | -.04141 | .43571 | -.09504 |
| 1.203 | -2.252 | -.43693 | -.04762 | .42960 | .02122 | .01850 | -.04479 | .10117 | -.04434 | .42995 | -.10314 |
| 1.203 | -.039 | -.44326 | -.05258 | .42789 | .02352 | .00208 | -.00151 | .00656 | -.04926 | .42828 | -.11501 |
| 1.203 | 2.145 | -.45157 | -.05037 | .42714 | .01305 | -.01396 | .04235 | -.08661 | -.04700 | .42752 | -.10994 |
| 1.203 | 4.366 | -.45921 | -.04462 | .43210 | .01171 | -.03124 | .08632 | -.18417 | -.04115 | .43244 | -.09516 |
| 1.202 | 6.594 | -.46875 | -.04081 | .43638 | .00566 | -.04810 | .12780 | -.26374 | -.03724 | .43670 | -.08528 |
| 1.201 | 8.833 | -.49277 | -.04133 | .44110 | -.00018 | -.06327 | .16218 | -.38203 | -.03754 | .44144 | -.08503 |
| 1.201 | 10.056 | -.50468 | -.04263 | .44171 | -.00244 | -.07111 | .18086 | -.43514 | -.03874 | .44207 | -.08763 |
| 1.201 | GRADIENT | -.00283 | -.00012 | -.00041 | -.00085 | -.00759 | .01982 | -.04321 | -.00010 | -.00041 | -.00032 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

PAGE 24

LRC 8 TPT 667 1A41 72P4S1P201

(R68009) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.0000 INCHES YMRP = .0000 INCHES
 BREF = 1290.0000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 46/ 0 RNVL = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .600 | -11.884 | -.01887 | -.81895 | .26507 | .34130 | .00245 | -.00996 | .01105 | -.74681 | .42803 | -1.74476 |
| .601 | -9.588 | -.01716 | -.67045 | .26697 | .28140 | .00147 | -.00354 | .00819 | -.61661 | .37492 | -1.64466 |
| .602 | -7.303 | -.01459 | -.53389 | .26666 | .22805 | .00064 | -.00102 | .00505 | -.49566 | .33136 | -1.49136 |
| .603 | -4.999 | -.01483 | -.39793 | .26415 | .17604 | .00029 | -.00018 | .00429 | -.37340 | .29781 | -1.25379 |
| .604 | -2.769 | -.00997 | -.27581 | .26246 | .13065 | -.00073 | .00379 | -.00336 | -.26281 | .27547 | -.95403 |
| .605 | -.501 | .01050 | -.16037 | .26334 | .08769 | -.00109 | .00559 | -.00826 | -.15809 | .26173 | -.60402 |
| .606 | 1.743 | .02346 | -.04091 | .25498 | .04236 | -.00110 | .00611 | -.01235 | -.04864 | .25362 | -.19180 |
| .607 | 4.017 | .03033 | .08937 | .24716 | -.00325 | -.00136 | .00670 | -.01482 | .07183 | .25281 | .28414 |
| .608 | 6.332 | .02228 | .21411 | .23645 | -.04763 | -.00059 | .00486 | -.01086 | .18673 | .25863 | .72200 |
| .609 | 8.591 | .01587 | .34314 | .22571 | -.09609 | .00009 | .00355 | -.00785 | .30557 | .27444 | 1.11345 |
| .610 | 10.870 | .01795 | .48341 | .21294 | -.15452 | -.00005 | .00519 | -.01002 | .43458 | .30029 | 1.44722 |
| GRADIENT | | .00509 | .05365 | -.00184 | -.02000 | -.00016 | .00071 | -.00209 | .04900 | -.00496 | .17026 |

RUN NO. 45/ 0 RNVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .799 | -11.408 | -.00883 | -.78816 | .29468 | .32769 | .00107 | -.00252 | .00577 | -.71430 | .44476 | -1.67603 |
| .799 | -9.147 | -.00815 | -.63717 | .29047 | .26712 | .00153 | -.00355 | .00647 | -.58289 | .38806 | -1.50206 |
| .799 | -6.948 | -.00797 | -.50171 | .28536 | .21396 | .00107 | -.00294 | .00581 | -.46351 | .34396 | -1.34759 |
| .799 | -4.739 | -.00705 | -.36565 | .28080 | .16037 | .00069 | -.00137 | .00395 | -.34120 | .31004 | -1.10050 |
| .799 | -2.541 | -.00420 | -.23927 | .27647 | .11136 | .00030 | -.00001 | .00197 | -.22677 | .28681 | -.79068 |
| .800 | -.351 | .00599 | -.12191 | .27202 | .06464 | -.00027 | .00402 | -.00608 | -.12024 | .27276 | -.44081 |
| .800 | 1.833 | .01551 | .00190 | .26551 | .01240 | -.00067 | .00504 | -.01060 | -.00659 | .26543 | -.02484 |
| .800 | 4.013 | .02076 | .12815 | .26108 | -.03309 | -.00066 | .00521 | -.01274 | .10757 | .26927 | .39948 |
| .799 | 6.239 | .01772 | .26129 | .25518 | -.08334 | -.00034 | .00406 | -.01054 | .23201 | .28206 | .82357 |
| .800 | 8.435 | .01028 | .38920 | .25820 | -.12873 | .00057 | .00264 | -.00639 | .34316 | .31191 | 1.10022 |
| .799 | 10.597 | .00559 | .49872 | .26072 | -.17240 | .00081 | .00154 | -.00360 | .44227 | .34799 | 1.27092 |
| GRADIENT | | .00344 | .05598 | -.00230 | -.02221 | -.00018 | .00083 | -.00208 | .05109 | -.00471 | .17211 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

PAGE 23

LRC 8 TPT 667 1A41 T2P4S1P201

(R00000) (29 JAN 74)

REFERENCE DATA

SHEP = 2895.0000 SQ.FT. WARP = 976.0000 INCHES
 LEFP = 1295.3000 INCHES YWEP = .0000 INCHES
 BREF = 1295.3000 INCHES ZWEP = 400.0000 INCHES
 SCALE = .0195 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 44/ 0 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/C |
|----------|---------|----------|----------|---------|---------|---------|---------|---------|---------|---------|----------|
| .901 | -11.669 | -0.0041 | -0.8362 | .32822 | .34895 | .00249 | -.00407 | .00670 | -.75295 | .49065 | -1.53458 |
| .905 | -9.380 | -0.0118 | -0.66194 | .32445 | .27330 | .00225 | -.00495 | .00844 | -.60015 | .42808 | -1.40197 |
| .909 | -7.122 | -0.00939 | -0.49792 | .31891 | .20357 | .00155 | -.00327 | .00622 | -.45455 | .37918 | -1.25194 |
| .913 | -4.858 | -0.00759 | -0.35010 | .31335 | .14292 | .00107 | .00022 | .00227 | -.32231 | .34187 | -.94279 |
| .917 | -2.600 | -0.0025 | -0.20621 | .30835 | .08397 | .00053 | .00031 | -.00316 | -.19202 | .31739 | -.60499 |
| .921 | -0.374 | -0.00931 | -0.07036 | .30234 | .02869 | .00005 | .00655 | -.00938 | -.06839 | .30279 | -.22587 |
| .925 | 1.864 | .01579 | .07131 | .29539 | -.03611 | -.00005 | .00531 | -.01024 | .06167 | .29755 | .20725 |
| .929 | 4.069 | .01812 | .19672 | .29450 | -.08693 | -.00032 | .00357 | -.00973 | .17533 | .30772 | .59378 |
| .933 | 6.285 | .01896 | .31038 | .29822 | -.12027 | -.00063 | .00387 | -.00993 | .27608 | .32842 | .84064 |
| .937 | 8.532 | .01308 | .43699 | .29915 | -.16673 | .00042 | .00283 | -.00703 | .38777 | .36067 | 1.07514 |
| .941 | 10.729 | .00685 | .55083 | .30122 | -.20407 | .00097 | .00045 | -.00270 | .48513 | .39850 | 1.21740 |
| GRADIENT | | .00300 | .06144 | -.00227 | -.02598 | -.00015 | .00043 | -.00139 | .05597 | -.05396 | .17193 |

RUN NO. 43/ 0 RNL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/C |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|--------|----------|
| .978 | -11.991 | .00114 | -.09216 | .40327 | .36186 | .00154 | -.00109 | .00070 | -.78891 | .57982 | -1.36060 |
| .982 | -9.657 | .00565 | -.70336 | .40253 | .28418 | .00085 | -.00050 | .00028 | -.62587 | .51481 | -1.21572 |
| .986 | -7.331 | -.00599 | -.52875 | .39952 | .21367 | .00033 | .00147 | -.00050 | -.47344 | .46372 | -1.02097 |
| .990 | -5.016 | -.00358 | -.37071 | .39488 | .15296 | -.00003 | .00359 | -.00236 | -.33477 | .42577 | -.78627 |
| .994 | -2.731 | -.00090 | -.22874 | .39000 | .10143 | -.00042 | .00385 | -.00533 | -.20989 | .40046 | -.52413 |
| .998 | -.464 | .00972 | -.09728 | .38742 | .05570 | -.00147 | .01007 | -.01258 | -.09414 | .38820 | -.24249 |
| .999 | 1.807 | .02159 | .04960 | .38902 | -.00397 | -.00143 | .00978 | -.01587 | .03732 | .39039 | .09559 |
| .999 | 4.032 | .02406 | .19655 | .39476 | -.07549 | -.00097 | .00706 | -.01402 | .16831 | .40760 | .4032 |
| .999 | 6.301 | .01659 | .33835 | .39311 | -.13836 | -.00038 | .00353 | -.00842 | .29316 | .42787 | .60317 |
| .999 | 8.570 | .01126 | .47031 | .38940 | -.18374 | -.00001 | .00474 | -.00797 | .40703 | .45514 | .89430 |
| .999 | 10.825 | .01126 | .59230 | .38458 | -.22058 | .00011 | .00331 | -.00854 | .50954 | .48897 | 1.04205 |
| GRADIENT | | .00385 | .06306 | .00070 | -.02816 | -.00007 | .00015 | -.00131 | .05611 | .00103 | .13958 |

(R08009) (29 JAN 74)

LRC 8 TPT 667 1A41 T2P4S1P201

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BRFP = 1290.3000 INCHES ZMRP = 490.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 42/0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CA | CLM | CSL | CYN | CY | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1.201 | -11.165 | .00521 | -.02940 | .44268 | .32904 | .00042 | .00324 | -.00450 | -.72778 | .59516 | -1.22283 |
| 1.201 | -9.995 | .00467 | -.73102 | .44033 | .28891 | .00025 | .00358 | -.00467 | -.64350 | .56052 | -1.14804 |
| 1.201 | -7.586 | -.00159 | -.55025 | .43692 | .21955 | .00025 | .00252 | -.00199 | -.48776 | .50374 | -.96444 |
| 1.201 | -5.222 | -.00499 | -.38681 | .43321 | .15787 | .00019 | .00380 | -.00232 | -.34578 | .46662 | -.74102 |
| 1.201 | -2.858 | -.00122 | -.22453 | .43043 | .09429 | -.00028 | .00554 | -.00498 | -.20279 | .44109 | -.45974 |
| 1.201 | -.537 | .00695 | -.07192 | .42985 | .03470 | -.00083 | .00695 | -.00901 | -.06789 | .43051 | -.15770 |
| 1.201 | 1.791 | .02239 | .07649 | .42830 | -.02169 | -.00113 | .00748 | -.01306 | .06306 | .43048 | .14649 |
| 1.201 | 4.077 | .02453 | .20911 | .42658 | -.07770 | -.00069 | .00379 | -.01010 | .17825 | .44037 | .40479 |
| 1.201 | 6.382 | .01978 | .34579 | .41848 | -.13038 | -.00038 | .00264 | -.00777 | .29713 | .45432 | .65401 |
| 1.201 | 8.683 | .01265 | .48375 | .40913 | -.18623 | .00031 | .00296 | -.00820 | .41644 | .47747 | .87218 |
| 1.200 | 10.954 | .00455 | .59952 | .40532 | -.21955 | .00049 | .00014 | -.00136 | .51156 | .51186 | .99945 |
| 1.201 | GRADIENT | .00392 | .06266 | -.00757 | -.02474 | -.00007 | -.00020 | -.00064 | .05508 | -.00010 | .12528 |

TABULATED SOURCE DATA, LARC CFI.-667 (IIA-41)

(R06010) (29 JAN 74)

LRC 0 TPT 667 IAA1 T1P101

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 51/ 0 RN/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .598 | -11.028 | -.01517 | -.63255 | .16682 | .37481 | .00576 | -.00940 | .01331 | -.50895 | .28475 | -2.06835 |
| .600 | -8.860 | -.01968 | -.52517 | .16553 | .31327 | .00460 | -.00790 | .01309 | -.49341 | .24445 | -2.01844 |
| .600 | -6.621 | -.02073 | -.41913 | .16356 | .25181 | .00387 | -.00520 | .01077 | -.39748 | .21079 | -1.86563 |
| .600 | -4.372 | -.02548 | -.30902 | .16321 | .18975 | .00357 | -.00535 | .01221 | -.29568 | .18629 | -1.58724 |
| .600 | -2.322 | -.01533 | -.22172 | .16206 | .14211 | .00233 | -.00273 | .00687 | -.21497 | .17091 | -1.25782 |
| .600 | -.188 | -.00207 | -.12961 | .15809 | .08323 | .00151 | -.00148 | .00199 | -.12909 | .15852 | -.81435 |
| .601 | 1.975 | .00699 | -.04017 | .15055 | .04592 | .00120 | -.00117 | -.00070 | -.04553 | .14908 | -.30409 |
| .600 | 4.035 | .01534 | .04783 | .14042 | -.00120 | .00079 | -.00008 | -.00529 | .03783 | .14344 | .26371 |
| .600 | 6.215 | .01374 | .14416 | .12723 | -.05481 | .00176 | -.00512 | -.00084 | .12953 | .14209 | -.91163 |
| .599 | 8.463 | .00671 | .24462 | .11154 | -.11079 | .00252 | -.00387 | .00182 | .22555 | .14633 | 1.54140 |
| .599 | 10.327 | .00237 | .34542 | .09641 | -.16818 | .00237 | -.00258 | .00181 | .32199 | .15790 | 2.03921 |
| GRADIENT | | .00528 | .04241 | -.00271 | -.02264 | -.00032 | .00037 | -.00201 | .03963 | -.00509 | .22058 |

RUN NO. 50/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .800 | -10.700 | -.00876 | -.58629 | .19428 | .34820 | .00315 | -.00439 | .00753 | -.54003 | .29976 | -1.80156 |
| .800 | -8.579 | -.00866 | -.48196 | .18853 | .28860 | .00272 | -.00287 | .00601 | -.44844 | .25831 | -1.73802 |
| .799 | -6.524 | -.01091 | -.39820 | .17906 | .24326 | .00276 | -.00215 | .00615 | -.37528 | .22314 | -1.68184 |
| .800 | -4.306 | -.00963 | -.29637 | .17359 | .18546 | .00219 | -.00041 | .00399 | -.28250 | .19535 | -1.44614 |
| .799 | -2.277 | -.00702 | -.19499 | .17006 | .12823 | .00192 | .00028 | .00235 | -.18808 | .17767 | -1.05859 |
| .800 | -.105 | .00116 | -.10191 | .16447 | .07691 | .00144 | .00095 | -.00134 | -.10161 | .16466 | -.61709 |
| .800 | 1.970 | .01008 | -.00649 | .15801 | .02407 | .00122 | .00037 | -.00410 | -.01191 | .15769 | -.07555 |
| .800 | 4.078 | .01515 | .09172 | .14923 | -.03081 | .00149 | -.00115 | -.00455 | .08088 | .15538 | .52052 |
| .799 | 6.171 | .01142 | .19667 | .14158 | -.09052 | .00219 | -.00215 | -.00222 | .18031 | .16190 | 1.11371 |
| .799 | 8.321 | .00828 | .28955 | .14187 | -.14110 | .00255 | -.00110 | -.00207 | .26597 | .18228 | 1.45912 |
| .799 | 10.413 | .00362 | .37327 | .14589 | -.18439 | .00279 | -.00197 | .00092 | .34076 | .21095 | 1.61533 |
| GRADIENT | | .00318 | .04590 | -.00289 | -.02553 | -.00010 | -.00007 | -.00112 | .04296 | -.00475 | .23397 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

PAGE 28

LRC 6 TPT 667 IA41 T1P101

(R00010) (29 JAN 74)

REFERENCE DATA

SRP = 2890.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.0000 INCHES YMRP = .0000 INCHES
 BRP = 1290.0000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 49/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| WICH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .899 | -10.862 | -.00724 | -.62964 | .21402 | .38074 | .00414 | -.00575 | .00791 | -.57792 | .32904 | -1.75636 |
| .901 | -8.741 | -.00791 | -.50803 | .20885 | .30873 | .00345 | -.00405 | .00648 | -.47039 | .28363 | -1.65848 |
| .903 | -6.543 | -.00995 | -.39286 | .20064 | .24041 | .00305 | -.00284 | .00599 | -.36744 | .24410 | -1.50926 |
| .905 | -4.397 | -.01058 | -.28205 | .19402 | .17664 | .00261 | -.00081 | .00423 | -.26634 | .21508 | -1.23834 |
| .907 | -2.246 | -.00734 | -.17382 | .19074 | .11489 | .00171 | .00044 | .00198 | -.16622 | .19740 | -.84202 |
| .909 | -.127 | .00158 | -.06095 | .18600 | .05064 | .00083 | .00090 | -.00138 | -.06054 | .18613 | -.32926 |
| .911 | 1.961 | .01343 | .04399 | .18093 | -.02953 | .00006 | .00143 | -.00376 | .03778 | .18233 | .20718 |
| .913 | 4.211 | .01767 | .14453 | .17871 | -.06316 | -.00001 | -.00008 | -.00371 | .13102 | .18884 | .69380 |
| .915 | 6.214 | .01499 | .23557 | .17840 | -.11312 | .00049 | -.00074 | -.00421 | .21488 | .20285 | 1.05930 |
| .917 | 8.363 | .00966 | .33676 | .18012 | -.17006 | .00168 | -.00022 | -.00297 | .30698 | .22720 | 1.35115 |
| .919 | 10.536 | -.00023 | .41358 | .18615 | -.20726 | .00105 | .00101 | -.00089 | .37257 | .25864 | 1.44049 |
| GRADIENT | | .00360 | .04998 | -.00188 | -.02818 | -.00032 | .00011 | -.00129 | .04660 | -.00314 | .22931 |

RUN NO. 48/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| WICH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .979 | -11.037 | .00375 | -.70161 | .27849 | .44555 | .00355 | -.00122 | .00002 | -.63532 | .40765 | -1.55848 |
| .979 | -8.875 | -.00635 | -.57739 | .27662 | .37374 | .00249 | -.00104 | .00293 | -.52780 | .36238 | -1.45646 |
| .981 | -6.691 | -.00917 | -.44507 | .27148 | .29346 | .00237 | .00077 | .00204 | -.41040 | .32149 | -1.27658 |
| .983 | -4.518 | -.00987 | -.31075 | .26515 | .20962 | .00141 | .00278 | .00031 | -.28890 | .28880 | -1.00033 |
| .985 | -2.374 | -.00477 | -.18753 | .26264 | .13589 | .00040 | .00422 | -.00260 | -.17649 | .27018 | -.65322 |
| .987 | -.200 | .00488 | -.07041 | .25903 | .06824 | .00003 | .00429 | -.00557 | -.06950 | .25927 | -.26807 |
| .989 | 1.999 | .01619 | .05539 | .25666 | -.00652 | -.00014 | .00344 | -.00817 | .04641 | .25844 | .17957 |
| .991 | 4.187 | .01911 | .18288 | .25750 | -.08238 | .00001 | .00141 | -.00712 | .16359 | .27017 | .60551 |
| .993 | 6.292 | .01436 | .29842 | .25708 | -.15103 | .00008 | .00213 | -.00638 | .26845 | .28824 | .93135 |
| .995 | 8.474 | .00162 | .40523 | .25903 | -.21033 | -.00073 | .00608 | -.00632 | .36264 | .31592 | 1.14788 |
| .997 | 10.598 | -.00722 | .49836 | .25994 | -.25821 | -.00078 | .00659 | -.00410 | .44206 | .34716 | 1.27334 |
| GRADIENT | | .00362 | .05648 | -.00098 | -.03335 | -.00015 | -.00016 | -.00094 | .05178 | -.00224 | .16571 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

DATE 12 JUL 74

(R00010) (29 JAN 74)

LRC 8 TPT 667 IA41 TIP101

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 RUDDER = .000

SREF = 2090.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 47/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| WICH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1.201 | -11.149 | -.00198 | -.65266 | .33419 | .40894 | .00072 | .00288 | -.00223 | -.57573 | .45408 | -1.26789 |
| 1.202 | -9.591 | -.00363 | -.53932 | .32822 | .34318 | .00075 | .00257 | -.00149 | -.48098 | .40897 | -1.17608 |
| 1.203 | -6.712 | -.00735 | -.42472 | .32275 | .28139 | .00134 | .00217 | -.00013 | -.38409 | .37017 | -1.03759 |
| 1.203 | -4.621 | -.00713 | -.30829 | .32075 | .21268 | .00118 | .00386 | -.00182 | -.26144 | .34455 | -.81684 |
| 1.204 | -2.444 | -.00460 | -.17594 | .31760 | .13175 | .00090 | .00356 | -.00220 | -.16224 | .32482 | -.49947 |
| 1.202 | -.226 | -.00480 | -.05297 | .31535 | .05846 | .00032 | .00307 | -.00421 | -.05173 | .31556 | -.16393 |
| 1.201 | 1.959 | .01677 | .06445 | .31291 | -.01014 | -.00034 | .00240 | -.00672 | .05371 | .31493 | .17056 |
| 1.201 | 4.231 | .02016 | .18187 | .31088 | -.07615 | -.00037 | .00161 | -.00686 | .15844 | .32345 | .48984 |
| 1.201 | 6.304 | .01692 | .28395 | .30592 | -.13269 | -.00019 | .00111 | -.00554 | .24864 | .33824 | .74167 |
| 1.202 | 8.454 | .01236 | .39311 | .30100 | -.19116 | .00063 | .00093 | -.00418 | .34459 | .35552 | .96924 |
| 1.202 | 10.635 | .00661 | .49572 | .29639 | -.24242 | .00117 | .00029 | -.00205 | .43251 | .38278 | 1.12991 |
| 1.200 | GRADIENT | .00343 | .05521 | -.00110 | -.03254 | -.00020 | -.00026 | -.00066 | .04955 | -.00234 | .14851 |

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

DATE 12 JUL 74

(R00011) (29 JAN 74)

LRC 6 TPT 667 1A41 TIP101

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
SCALE = .0150 SCALE

RUN NO. 56/ 0 RNVL = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|--------|---------|---------|---------|--------|---------|--------|---------|---------|---------|---------|
| .600 | -9.893 | -26140 | -12150 | .18314 | .08964 | .06859 | -14637 | .38741 | -12066 | .18369 | -.65689 |
| .600 | -8.694 | -25332 | -12082 | .18113 | .09042 | .06204 | -13277 | .34426 | -12001 | .18166 | -.66082 |
| .600 | -6.618 | -24804 | -11968 | .17713 | .09074 | .04916 | -10565 | .26642 | -11891 | .17764 | -.66939 |
| .600 | -4.406 | -24438 | -11900 | .16985 | .08922 | .03412 | -07382 | .18321 | -11827 | .17035 | -.69427 |
| .600 | -2.208 | -24721 | -12027 | .16366 | .08829 | .01861 | -04099 | .09944 | -11956 | .16417 | -.72827 |
| .599 | -.032 | -25654 | -12771 | .15916 | .09178 | .00437 | -00980 | .01838 | -12700 | .15973 | -.79505 |
| .600 | 2.123 | -25877 | -12804 | .15912 | .09161 | -.01339 | .03464 | -.07820 | -12732 | .15969 | -.79729 |
| .600 | 4.359 | -26515 | -12652 | .16124 | .08850 | -.02982 | .06982 | -.16823 | -12577 | .16182 | -.77721 |
| .599 | 6.527 | -26992 | -12482 | .16226 | .08505 | -.04501 | .10195 | -.25217 | -12403 | .16284 | -.76179 |
| .600 | 8.828 | -27611 | -11926 | .16416 | .07767 | -.05931 | .13248 | -.33657 | -11847 | .16473 | -.71915 |
| .600 | 9.896 | -28292 | -11921 | .16452 | .07549 | -.06498 | .14455 | -.37517 | -11840 | .16511 | -.71710 |
| GRADIENT | | -.00243 | -.00104 | -.00099 | .00006 | -.00730 | .01660 | -.04010 | -.00104 | -.00098 | -.01072 |

RUN NO. 55/ 0 RNVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .799 | -10.667 | -17148 | -.09005 | .19786 | .06973 | .07667 | -16574 | .43318 | -.08946 | .19813 | -.45154 |
| .800 | -8.566 | -16042 | -.08480 | .19133 | .06753 | .06348 | -13798 | .35016 | -.08426 | .19157 | -.43984 |
| .799 | -6.401 | -15308 | -.08435 | .18518 | .06858 | .05053 | -11063 | .27030 | -.08385 | .18541 | -.45226 |
| .800 | -4.297 | -13278 | -.08631 | .17902 | .06939 | .03579 | -07854 | .18574 | -.08583 | .17925 | -.47885 |
| .799 | -2.085 | -15767 | -.09250 | .17210 | .07211 | .01892 | -04115 | .09697 | -.09203 | .17235 | -.53395 |
| .799 | -.020 | -16699 | -.10288 | .16598 | .07750 | .00402 | -.00675 | .01390 | -.10240 | .16828 | -.61583 |
| .799 | 2.100 | -17219 | -.10560 | .16595 | .07813 | -.01304 | .03548 | -.07872 | -.10510 | .16826 | -.5214 |
| .799 | 4.259 | -17432 | -.09821 | .16904 | .06778 | -.03151 | .07746 | -.17470 | -.09569 | .16933 | -.56513 |
| .799 | 6.463 | -17683 | -.08869 | .16937 | .05872 | -.04793 | .11320 | -.26243 | -.08817 | .16964 | -.51975 |
| .799 | 8.573 | -18190 | -.08356 | .17127 | .05145 | -.06017 | .14099 | -.34470 | -.08301 | .17154 | -.48394 |
| .799 | 10.702 | -19370 | -.08516 | .17477 | .04884 | -.07370 | .16980 | -.42764 | -.08457 | .17505 | -.48312 |
| GRADIENT | | -.00270 | -.00154 | -.00123 | .00013 | -.00782 | .01825 | -.04210 | -.00154 | -.00122 | -.01269 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-11)

DATE 12 JUL 74

(RQ8011) (29 JAN 74)

LRC 6 TPT 667 IA41 TPI101

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

RUN NO. 54/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .92R | -10.837 | -1.7837 | -.05741 | .22337 | .04837 | .08475 | -.18969 | .47120 | -.05670 | .22355 | -.25141 |
| .900 | -8.684 | -1.6412 | -.05067 | .21835 | .04498 | .07055 | -.15999 | .38288 | -.05004 | .21849 | -.22904 |
| .900 | -6.528 | -1.5448 | -.04699 | .21077 | .04289 | .05540 | -.12768 | .29440 | -.04642 | .21089 | -.22012 |
| .900 | -4.386 | -1.4854 | -.04379 | .20284 | .03984 | .03939 | -.09192 | .20425 | -.04327 | .20295 | -.21320 |
| .899 | -2.196 | -1.5343 | -.05192 | .19442 | .04444 | .02086 | -.04848 | .10723 | -.05140 | .19456 | -.26419 |
| .900 | -.008 | -1.5972 | -.06207 | .19679 | .05101 | .00318 | -.00320 | .01088 | -.06154 | .18696 | -.32918 |
| .900 | 2.162 | -1.6497 | -.05877 | .18624 | .04582 | -.01505 | .04520 | -.09275 | -.05823 | .18841 | -.30905 |
| .900 | 4.341 | -1.6880 | -.04910 | .19240 | .03494 | -.03464 | .09151 | -.19245 | -.04853 | .19254 | -.25204 |
| .899 | 6.516 | -1.7644 | -.04773 | .19630 | .03143 | -.05166 | .12942 | -.19645 | -.04712 | .19645 | -.23987 |
| .900 | 8.707 | -1.8870 | -.04967 | .20032 | .02977 | -.06783 | .16526 | -.37909 | -.04901 | .20048 | -.24448 |
| .900 | 10.844 | -1.9840 | -.05028 | .20382 | .02756 | -.08139 | .19416 | -.46795 | -.04958 | .20400 | -.24303 |
| .900 | GRADIENT | -.00239 | -.00080 | -.00124 | -.00038 | -.00843 | .02111 | -.04554 | -.00080 | -.00124 | -.00564 |

RUN NO. 53/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|------|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .979 | -10.806 | -2.0104 | -.06217 | .29830 | .06895 | .09679 | -.19233 | .48167 | -.06113 | .29852 | -.20477 |
| .981 | -8.738 | -1.9277 | -.05819 | .29584 | .06718 | .08100 | -.15939 | .38934 | -.05719 | .29603 | -.19320 |
| .981 | -6.573 | -1.8298 | -.05141 | .28598 | .06093 | .06350 | -.12352 | .29368 | -.05050 | .28614 | -.17647 |
| .980 | -4.364 | -1.7919 | -.04954 | .27528 | .05758 | .04298 | -.08191 | .19410 | -.04868 | .27543 | -.17673 |
| .980 | -2.201 | -1.8555 | -.05477 | .26343 | .05789 | .02224 | -.04061 | .09936 | -.05391 | .26361 | -.20452 |
| .979 | -.008 | -1.9378 | -.06582 | .25801 | .06463 | .00273 | -.00227 | .05758 | -.06494 | .25823 | -.25148 |
| .979 | 2.183 | -1.9911 | -.06464 | .25858 | .06235 | -.01679 | .04051 | -.08777 | -.06374 | .25881 | -.24630 |
| .980 | 4.363 | -2.0843 | -.06370 | .26767 | .06035 | -.03884 | .08554 | -.18822 | -.06272 | .26790 | -.23414 |
| .980 | 6.581 | -2.1219 | -.06090 | .27389 | .05752 | -.05891 | .12370 | -.28634 | -.05989 | .27411 | -.21847 |
| .978 | 8.766 | -2.1753 | -.06152 | .27713 | .05696 | -.07646 | .16256 | -.38371 | -.06047 | .27736 | -.21803 |
| .979 | 10.986 | -2.2161 | -.05793 | .28004 | .05347 | -.09426 | .19917 | -.48770 | -.05686 | .28026 | -.20287 |
| .979 | GRADIENT | -.00330 | -.00175 | -.00092 | .00046 | -.00928 | .01905 | -.04358 | -.00174 | -.00091 | -.00717 |

RUN NO. 52/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.201 | -8.788 | -2.7042 | -.05331 | .34763 | .05930 | .07773 | -.13306 | .36896 | -.05197 | .34788 | -.14910 |
| 1.201 | -6.601 | -2.4768 | -.04637 | .33763 | .05634 | .06085 | -.10255 | .27725 | -.04491 | .33782 | -.13294 |
| 1.201 | -4.390 | -2.3635 | -.04586 | .32623 | .05584 | .04148 | -.06779 | .18342 | -.04450 | .32642 | -.13633 |
| 1.201 | -2.231 | -2.3219 | -.04105 | .31694 | .05030 | .02186 | -.03321 | .09282 | -.03976 | .31711 | -.12539 |
| 1.201 | .002 | -2.3969 | -.04578 | .31420 | .05233 | .00276 | -.00013 | .00476 | -.04447 | .31439 | -.14145 |
| 1.201 | 2.211 | -2.4597 | -.04860 | .31656 | .05398 | -.01735 | .03435 | -.08327 | -.04724 | .31676 | -.14915 |
| 1.201 | 4.387 | -2.5055 | -.04413 | .31641 | .04770 | -.03674 | .06858 | -.17269 | -.04274 | .31660 | -.13500 |
| 1.201 | 6.600 | -2.6069 | -.04196 | .32918 | .04313 | -.05676 | .10377 | -.27029 | -.04050 | .32037 | -.12643 |
| 1.201 | 8.894 | -2.7461 | -.03943 | .32061 | .03616 | -.07400 | .13413 | -.36371 | -.03789 | .32099 | -.11805 |
| 1.200 | GRADIENT | -.00174 | -.00019 | -.00091 | -.00057 | -.00889 | .01547 | -.04037 | -.00018 | -.00091 | -.00097 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 T1P1

(R00012) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. 7MRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0130 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 61/ 0 RN/L = 3.10 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/N |
|----------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .599 | -10.315 | -.00968 | -.11356 | .08955 | .00376 | .00017 | .00637 | -.00469 | -.09569 | .10944 | -.88243 |
| .599 | -8.232 | -.00929 | -.09398 | .08362 | .00616 | .00011 | .00637 | -.00487 | -.08104 | .09621 | -.84223 |
| .599 | -6.143 | -.00739 | -.07806 | .07840 | .01017 | .00002 | .00664 | -.00598 | -.06922 | .08631 | -.80208 |
| .598 | -4.146 | -.00303 | -.06490 | .07557 | .01527 | -.00009 | .00801 | -.00950 | -.05927 | .08017 | -.74027 |
| .599 | -2.087 | .00269 | -.03129 | .07360 | .02091 | -.00016 | .00760 | -.01118 | -.04854 | .07542 | -.64414 |
| .600 | -.027 | .00802 | -.03613 | .07233 | .02574 | -.00016 | .00579 | -.01082 | -.03610 | .07235 | -.49892 |
| .599 | 2.086 | .00734 | -.01761 | .07172 | .02904 | -.00013 | .00385 | -.00198 | -.02021 | .07104 | -.28444 |
| .600 | 4.129 | .00485 | .00185 | .07010 | .03140 | -.00010 | .03184 | -.00434 | -.00320 | .07005 | -.04566 |
| .599 | 6.120 | .00263 | .01971 | .06744 | .03435 | -.00013 | .00063 | -.00186 | .01241 | .06916 | .17945 |
| .600 | 8.194 | .00199 | .03927 | .06578 | .03720 | -.00005 | .00179 | -.00316 | .02950 | .07070 | .41719 |
| .600 | 10.238 | .00278 | .05878 | .06370 | .03984 | -.00004 | .00203 | -.00380 | .04652 | .07313 | .63613 |
| GRADIENT | | .00098 | .00807 | -.00062 | .00195 | .00000 | -.05078 | .00065 | .00678 | -.00118 | .08441 |

RUN NO. 60/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/N |
|----------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .799 | -10.193 | -.00720 | -.11719 | .09751 | .00326 | .00017 | .00422 | -.00184 | -.09809 | .11671 | -.84043 |
| .801 | -8.183 | -.00731 | -.09682 | .09259 | .00765 | .00017 | .00343 | -.00076 | -.08266 | .10542 | -.78406 |
| .800 | -6.155 | -.00693 | -.08240 | .08653 | .01299 | .00008 | .00392 | -.00163 | -.07265 | .09487 | -.76573 |
| .800 | -4.067 | -.00407 | -.06466 | .08327 | .01589 | -.00005 | .00471 | -.00416 | -.05859 | .08764 | -.66846 |
| .799 | -2.101 | -.00009 | -.04780 | .08049 | .01874 | -.00012 | .00439 | -.00380 | -.04462 | .08218 | -.54298 |
| .800 | -.011 | .00284 | -.02759 | .08066 | .02089 | -.00008 | .00299 | -.00346 | -.02758 | .08066 | -.34190 |
| .799 | 1.986 | .00320 | -.00790 | .07925 | .02215 | -.00010 | .00208 | -.00443 | -.01064 | .07893 | -.13480 |
| .799 | 4.066 | .00293 | .01334 | .07514 | .02346 | -.00010 | .00123 | -.00316 | .00798 | .07590 | .10517 |
| .800 | 6.076 | .00076 | .03450 | .07416 | .02468 | -.00010 | .00190 | -.00294 | .02645 | .07740 | .34180 |
| .799 | 8.096 | .00120 | .05392 | .07354 | .02773 | -.00005 | .00181 | -.00315 | .04303 | .08040 | .53513 |
| .799 | 10.179 | .00136 | .07540 | .07310 | .02992 | -.00004 | .00167 | -.00295 | .06129 | .08528 | .71876 |
| GRADIENT | | .00085 | .00962 | -.00086 | .00091 | -.00000 | -.00046 | .00017 | .00821 | -.00131 | .09614 |

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

LRC 6 TPT 667 1A41 T1P1

(R08012) (29 JAN 74)

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
SCALE = .0150 SCALE

RUN NO. 59/ 0 RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .899 | -10.250 | -.00666 | -.11882 | .11245 | .00267 | .00021 | .00228 | .00014 | -.09692 | .13180 | -.73537 |
| .900 | -8.141 | -.00789 | -.09555 | .10597 | .00371 | .00016 | .00174 | .00130 | -.07958 | .11843 | -.67194 |
| .900 | -6.186 | -.00724 | -.07491 | .10030 | .00315 | .00010 | .00170 | .00104 | -.06367 | .10779 | -.59069 |
| .899 | -4.111 | -.00450 | -.05343 | .09550 | .00773 | .00002 | .00253 | -.00133 | -.04848 | .09873 | -.49104 |
| .900 | -2.086 | .00068 | -.03474 | .09533 | .05908 | -.00009 | .00224 | -.00330 | -.03124 | .09653 | -.32369 |
| .901 | -.040 | .00241 | -.01343 | .09148 | .01045 | -.00009 | .00163 | -.00327 | -.01336 | .09149 | -.14605 |
| .900 | 2.014 | .00465 | .00771 | .08782 | .01118 | -.00008 | .00163 | -.00428 | .00462 | .08804 | .05242 |
| .898 | 4.060 | .00229 | .02730 | .08661 | .01384 | -.00008 | .00202 | -.00374 | .02110 | .08832 | .23885 |
| .900 | 6.117 | .00104 | .04639 | .08666 | .01738 | -.00007 | .00219 | -.00340 | .03689 | .09111 | .40484 |
| .900 | 8.238 | .00053 | .06748 | .08620 | .02088 | -.00001 | .00201 | -.00292 | .05443 | .09498 | .57309 |
| .900 | 10.207 | .00140 | .08840 | .08615 | .02370 | .00002 | .00190 | -.00318 | .07173 | .10045 | .71406 |
| GRADIENT | | .00086 | .01017 | -.00119 | .00070 | -.00001 | -.00008 | -.00028 | .00856 | -.00143 | .06982 |

RUN NO. 58/ 0 RNVL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .980 | -10.312 | -.00758 | -.11900 | .14246 | -.00876 | .00024 | .00078 | .00218 | -.09157 | .16146 | -.56717 |
| .980 | -8.187 | -.00814 | -.09165 | .13396 | -.00679 | .00016 | .00071 | .00251 | -.07164 | .14565 | -.49184 |
| .980 | -6.203 | -.00672 | -.06937 | .12758 | -.00459 | .00008 | .00148 | .00086 | -.05518 | .13432 | -.41082 |
| .980 | -4.137 | -.00471 | -.04603 | .12709 | -.00283 | .00002 | .00209 | -.00081 | -.03674 | .13008 | -.28244 |
| .979 | -2.105 | .00056 | -.02548 | .12123 | -.00009 | -.00009 | .00191 | -.00278 | -.02101 | .12208 | -.17208 |
| .979 | -.042 | .00473 | -.00481 | .11684 | .00286 | -.00013 | .00157 | -.00408 | -.00473 | .11684 | -.04045 |
| .980 | 2.022 | .00315 | .01438 | .11649 | .00756 | -.00012 | .00089 | -.00335 | .01026 | .11692 | .08774 |
| .979 | 4.067 | .00259 | .03304 | .11611 | .01279 | -.00013 | .00140 | -.00296 | .02472 | .11816 | .20923 |
| .980 | 6.132 | .00148 | .05176 | .11682 | .01824 | -.00011 | .00173 | -.00294 | .03899 | .12168 | .32040 |
| .979 | 8.162 | .00044 | .07338 | .11612 | .02282 | -.00008 | .00135 | -.00199 | .05610 | .12538 | .44747 |
| .979 | 10.276 | .00242 | .09696 | .11668 | .02774 | .00003 | .00114 | -.00256 | .07459 | .13211 | .56462 |
| GRADIENT | | .00093 | .00964 | -.00130 | .00189 | -.00002 | -.00012 | -.00024 | .00751 | -.00141 | .06054 |

(R08012) (29 JAN 74)

LRC 8 TPT 667 1A41 T1P1

REFERENCE DATA

BREF = 2690.0000 96.FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 490.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 57/ 0 RN/L = 2.10 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/O |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.201 | -10.337 | -.00762 | -.12126 | .17429 | -.01502 | .00025 | .00096 | .00164 | -.06794 | .19325 | -.45507 |
| 1.201 | -6.263 | -.00842 | -.09993 | .16926 | -.01039 | .00016 | .00159 | .00100 | -.07154 | .18146 | -.39423 |
| 1.202 | -6.242 | -.00883 | -.07200 | .16548 | -.00738 | .00010 | .00239 | .00007 | -.03358 | .17233 | -.31091 |
| 1.200 | -4.174 | -.00561 | -.04996 | .16048 | -.00336 | .00004 | .00199 | -.00060 | -.03815 | .16369 | -.23304 |
| 1.200 | -2.118 | .00012 | -.02706 | .15903 | -.00041 | .00000 | .00109 | -.00149 | -.02116 | .15992 | -.13234 |
| 1.200 | -.043 | .00509 | -.00646 | .15668 | .00409 | -.00004 | -.00075 | -.00087 | -.00634 | .15668 | -.04048 |
| 1.200 | 2.021 | .00505 | .01177 | .15511 | .01011 | -.00008 | -.00125 | -.00019 | .00630 | .15543 | .04051 |
| 1.200 | 4.079 | .00452 | .03365 | .15494 | .01439 | -.00011 | -.00102 | -.00031 | .02275 | .15696 | .14492 |
| 1.200 | 6.147 | .00222 | .05503 | .15451 | .01929 | -.00005 | -.00065 | .00005 | .03816 | .15952 | .23924 |
| 1.199 | 8.244 | .00091 | .07947 | .15363 | .02450 | -.00005 | -.00064 | .00032 | .03682 | .16344 | .34643 |
| 1.200 | 10.292 | .00219 | .10533 | .15421 | .02890 | .00006 | -.00077 | .00021 | .07608 | .17055 | .44611 |
| | GRADIENT | .00122 | .01000 | -.00073 | .00223 | -.00002 | -.00041 | .00009 | .00723 | -.00087 | .04499 |

DATE 1. JUL 74

TABULATED SOURCE DATA, LARC 871-667 ("A-41")

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LRC 8 TPT 667 IA41 T1P1

(RQ013) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XWRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YWRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZWRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 66/ 0 RN/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .600 | -10.330 | -.02399 | -.04666 | .10292 | .02840 | .00136 | .00880 | .11172 | -.04661 | .10294 | -.45280 |
| .600 | -8.251 | -.01346 | -.03746 | .09455 | .02472 | .00097 | .01031 | .08323 | -.03743 | .09456 | -.39587 |
| .600 | -6.196 | -.00665 | -.03131 | .08784 | .02220 | .00064 | .00937 | .05937 | -.03130 | .08785 | -.35633 |
| .600 | -4.136 | -.00572 | -.03274 | .08268 | .02362 | .00037 | .00829 | .03765 | -.03273 | .08268 | -.39589 |
| .900 | -2.062 | -.00637 | -.03663 | .07674 | .02643 | .00010 | .00633 | .01563 | -.03662 | .07675 | -.47711 |
| .600 | -.005 | -.01122 | -.03790 | .07339 | .02581 | -.00010 | .00616 | -.00647 | -.03788 | .07340 | -.51613 |
| .600 | 2.058 | -.01199 | -.04031 | .06981 | .02744 | -.00033 | .00383 | -.02759 | -.04029 | .06982 | -.57709 |
| .599 | 4.120 | -.00909 | -.03974 | .06786 | .02795 | -.00054 | .00065 | -.04719 | -.03973 | .06786 | -.58548 |
| .600 | 6.193 | -.00755 | -.03913 | .06659 | .02800 | -.00085 | .00228 | -.06735 | -.03913 | .06659 | -.58753 |
| .600 | 8.250 | -.00917 | -.04123 | .06509 | .02909 | -.00130 | -.00436 | -.09059 | -.04122 | .06510 | -.63313 |
| .599 | 10.320 | -.01315 | -.04437 | .06359 | .03021 | -.00167 | -.00457 | -.11743 | -.04436 | .06360 | -.69744 |
| GRADIENT | | -.00060 | -.00086 | -.00177 | .00047 | -.00011 | -.00086 | -.01032 | -.00086 | -.00177 | -.02323 |

RUN NO. 65/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| .600 | -10.253 | -.01654 | -.04144 | .11865 | .02493 | .00140 | .00373 | .12101 | -.04141 | .11866 | -.34898 |
| .601 | -8.180 | -.00821 | -.03319 | .10944 | .02221 | .00108 | .00302 | .09441 | -.03317 | .10945 | -.30311 |
| .601 | -6.141 | -.00459 | -.02925 | .09995 | .02075 | .00073 | .00281 | .06905 | -.02924 | .09995 | -.29252 |
| .600 | -4.095 | -.00361 | -.02875 | .09210 | .02080 | .00042 | .00394 | .04370 | -.02875 | .09210 | -.31211 |
| .601 | -2.038 | -.00522 | -.03355 | .08384 | .02383 | .00011 | .00256 | .02154 | -.03355 | .08384 | -.40009 |
| .600 | -.013 | -.00589 | -.03129 | .08211 | .02176 | -.00011 | .00322 | -.00266 | -.03129 | .08211 | -.38102 |
| .600 | 2.042 | -.00547 | -.03400 | .07411 | .02406 | -.00031 | .00276 | -.02534 | -.03400 | .07412 | -.45862 |
| .601 | 4.078 | -.00498 | -.03154 | .07165 | .02236 | -.00057 | .00015 | -.04594 | -.03154 | .07166 | -.44010 |
| .600 | 6.129 | -.00351 | -.03095 | .07016 | .02256 | -.00089 | -.00134 | -.07027 | -.03095 | .07017 | -.44109 |
| .799 | 8.189 | -.00480 | -.03327 | .06653 | .02378 | -.00132 | -.00104 | -.09688 | -.03326 | .06653 | -.49993 |
| .600 | 10.225 | -.00688 | -.03609 | .06390 | .02506 | -.00173 | -.00111 | -.12536 | -.03608 | .06391 | -.56458 |
| GRADIENT | | -.00015 | -.00030 | -.00248 | .00016 | -.00012 | -.00036 | -.01107 | -.00030 | -.00248 | -.01542 |

LRC 8 TPT 667 IAA1 T1P1

OR0013) (29 JAN 74)

REFERENCE DATA

SEEF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 64/ 0 RVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .900 | -10.291 | -.01778 | -.03401 | .13101 | .01556 | .00151 | .00116 | .13063 | -.03397 | .13102 | -.25925 |
| .900 | -8.236 | -.01040 | -.02734 | .12255 | .01725 | .00113 | .00086 | .10164 | -.02732 | .12255 | -.22294 |
| .900 | -6.176 | -.00395 | -.02191 | .11370 | .01553 | .00077 | .00008 | .07538 | -.02190 | .11370 | -.19259 |
| .900 | -4.111 | -.00383 | -.01968 | .10389 | .01424 | .00047 | -.00024 | .05083 | -.01968 | .10389 | -.18943 |
| .900 | -2.057 | -.00313 | -.01991 | .09593 | .01398 | .00013 | -.00027 | .02638 | -.01990 | .09593 | -.20747 |
| .899 | -.014 | -.00477 | -.01727 | .08241 | .01160 | -.00013 | .00146 | -.00031 | -.01727 | .08241 | -.18684 |
| .900 | 2.049 | -.00510 | -.01906 | .08771 | .01286 | -.00032 | .00257 | -.02577 | -.01905 | .08771 | -.21718 |
| .900 | 4.114 | -.00424 | -.01854 | .08508 | .01279 | -.00061 | .00275 | -.05101 | -.01853 | .08508 | -.21782 |
| .899 | 6.172 | -.00359 | -.02027 | .08489 | .01440 | -.00098 | .00257 | -.07725 | -.02027 | .08489 | -.23878 |
| .900 | 8.214 | -.00382 | -.02316 | .08314 | .01655 | -.00140 | .00261 | -.10522 | -.02315 | .08314 | -.27847 |
| .900 | 10.301 | -.00710 | -.02678 | .08096 | .01810 | -.00183 | .00203 | -.13485 | -.02677 | .08097 | -.33066 |
| GRADIENT | | -.00019 | .00015 | -.00223 | -.00020 | -.00013 | .00043 | -.01245 | .00015 | -.00223 | -.00324 |

RUN NO. 63/ 0 RVL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .980 | -10.363 | -.02809 | -.03194 | .16098 | .01550 | .00151 | .00942 | .13522 | -.03187 | .16099 | -.19796 |
| .981 | -8.282 | -.01480 | -.02276 | .15316 | .01241 | .00117 | .00662 | .10484 | -.02272 | .15317 | -.14832 |
| .980 | -6.209 | -.00851 | -.01716 | .14292 | .01031 | .00083 | .00417 | .07792 | -.01714 | .14292 | -.11991 |
| .980 | -4.143 | -.00516 | -.01230 | .13211 | .00772 | .00048 | .00294 | .05186 | -.01229 | .13211 | -.09300 |
| .980 | -2.068 | -.00639 | -.01189 | .12390 | .00696 | .00013 | .00121 | .02692 | -.01187 | .12391 | -.09581 |
| .980 | -.004 | -.00694 | -.00727 | .11825 | .00317 | -.00011 | .00153 | -.00029 | -.00726 | .11825 | -.06137 |
| .979 | 2.069 | -.00819 | -.00879 | .11492 | .00482 | -.00036 | .00136 | -.02653 | -.00877 | .11492 | -.07634 |
| .979 | 4.124 | -.00321 | -.00924 | .11431 | .00532 | -.00063 | .00040 | -.03239 | -.00923 | .11431 | -.08073 |
| .979 | 6.181 | -.00372 | -.01071 | .11445 | .00701 | -.00102 | -.00153 | -.07805 | -.01071 | .11446 | -.09354 |
| .979 | 8.268 | -.00544 | -.01490 | .11393 | .00965 | -.00141 | -.00392 | -.10705 | -.01489 | .11393 | -.13066 |
| .979 | 10.349 | -.01255 | -.01991 | .11252 | .01099 | -.00176 | -.00652 | -.13792 | -.01989 | .11253 | -.17673 |
| GRADIENT | | .00000 | .00045 | -.00216 | -.00035 | -.00013 | -.00024 | -.01267 | .00045 | -.00216 | .00213 |

DATE 12 JUL 74

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

(R00013) (29 JAN 74)

LRC 8 TPT 667 1A41 T1P1

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 62/ 0 RVAL = 2.11 GRADIENT L. ERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.200 | -10.426 | -.03571 | -.03855 | .19122 | .01880 | .00165 | .01704 | .13710 | -.03843 | .19124 | -.25096 |
| 1.201 | -8.337 | -.02241 | -.02758 | .18355 | .01444 | .00127 | .01398 | .10477 | -.02751 | .18356 | -.14986 |
| 1.201 | -6.246 | -.01122 | -.01955 | .17548 | .01170 | .00087 | .01134 | .07316 | -.01952 | .17548 | -.11121 |
| 1.202 | -4.155 | -.00748 | -.01518 | .16698 | .00947 | .00049 | .00854 | .04895 | -.01516 | .16698 | -.09077 |
| 1.202 | -2.105 | -.00316 | -.01133 | .16040 | .00720 | .00020 | .00417 | .02532 | -.01131 | .16040 | -.07053 |
| 1.202 | -.006 | -.00325 | -.00716 | .15667 | .00593 | -.00007 | -.00011 | .00225 | -.00715 | .15667 | -.04563 |
| 1.202 | 2.062 | -.00354 | -.00609 | .15437 | .00363 | -.00039 | -.00306 | -.02215 | -.00608 | .15437 | -.03939 |
| 1.201 | 4.153 | -.00279 | -.00593 | .15352 | .00374 | -.00066 | -.00665 | -.04773 | -.00592 | .15352 | -.03856 |
| 1.201 | 6.227 | -.00278 | -.00899 | .15408 | .00613 | -.00105 | -.00879 | -.07505 | -.00898 | .15408 | -.05828 |
| 1.200 | 8.322 | -.00505 | -.01345 | .15316 | .00889 | -.00146 | -.01167 | -.10612 | -.01344 | .15316 | -.08775 |
| 1.200 | 10.422 | -.01308 | -.01959 | .15186 | .01115 | -.00192 | -.01293 | -.14122 | -.01955 | .15186 | -.12677 |
| 1.200 | GRADIENT | .00053 | .00114 | -.00158 | -.00072 | -.00014 | -.00181 | -.01154 | .00114 | -.00158 | .00652 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 0FT.-667 (IA-41)

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LRC 0 TPT 667 IA41 TIP1S1P2

(R00014) (29 JAN 74)

REFERENCE DATA

XREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 71/ 0 RN/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|----------|
| .599 | -10.765 | -.00395 | -.36209 | .16664 | .04158 | -.00099 | .00036 | .00108 | -.32501 | .23346 | -1.39215 |
| .599 | -8.623 | -.00478 | -.29379 | .16669 | .03316 | -.00125 | .00047 | .00124 | -.26517 | .21083 | -1.23777 |
| .599 | -6.483 | -.00130 | -.23170 | .16759 | .03332 | -.00131 | .00161 | -.00164 | -.21129 | .19268 | -1.09661 |
| .599 | -4.360 | .00198 | -.17418 | .16707 | .03287 | -.00080 | .00111 | -.00225 | -.16097 | .17983 | -.89513 |
| .599 | -2.210 | .00678 | -.11672 | .16683 | .02983 | -.00048 | .00044 | -.00320 | -.10420 | .17098 | -.62944 |
| .599 | -.076 | .01081 | -.04603 | .16666 | .02734 | -.00081 | -.00039 | -.00366 | -.04581 | .16672 | -.27475 |
| .599 | 2.074 | .01017 | .02239 | .16740 | .02393 | -.00077 | .00010 | -.00407 | .01631 | .16810 | .09704 |
| .599 | 4.232 | .00635 | .08965 | .16679 | .02051 | -.00078 | .00024 | -.00278 | .07710 | .17295 | .44581 |
| .599 | 6.376 | .00507 | .15470 | .16676 | .01706 | -.00067 | .00038 | -.00246 | .13523 | .18291 | .79933 |
| .599 | 8.503 | .00327 | .21736 | .16732 | .01442 | -.00031 | .00040 | -.00075 | .19020 | .19782 | .96148 |
| .599 | 10.648 | .00366 | .29065 | .16748 | .00900 | .00004 | -.00046 | -.00080 | .25470 | .21830 | 1.16672 |
| GRADIENT | | .00056 | .03078 | .00000 | -.00143 | -.00001 | -.00010 | -.00009 | .02779 | -.00077 | .15764 |

RUN NO. 70/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .799 | -10.585 | -.00351 | -.37959 | .18136 | .05274 | -.00091 | -.00030 | .00225 | -.33982 | .24801 | -1.37019 |
| .799 | -8.471 | -.00306 | -.30389 | .18059 | .04451 | -.00106 | -.00053 | .00232 | -.27397 | .22339 | -1.22646 |
| .799 | -6.376 | -.00175 | -.23817 | .17969 | .04004 | -.00105 | -.00032 | .00135 | -.21674 | .20502 | -1.05714 |
| .799 | -4.282 | -.00021 | -.17617 | .17657 | .03397 | -.00057 | -.00029 | .00050 | -.16235 | .19122 | -.84898 |
| .600 | -2.178 | .00195 | -.11579 | .17777 | .02885 | -.00054 | -.00050 | -.00035 | -.10895 | .18204 | -.59851 |
| .600 | -.074 | .07546 | -.04558 | .17675 | .02471 | -.00054 | -.00064 | -.00198 | -.04536 | .17681 | -.23653 |
| .799 | 2.074 | .00500 | .03216 | .17636 | .02138 | -.00076 | .00014 | -.00278 | .02569 | .17941 | .14317 |
| .799 | 4.161 | .00374 | .09720 | .17698 | .01379 | -.00070 | .00012 | -.00211 | .08410 | .18356 | .45817 |
| .799 | 6.279 | .00284 | .16765 | .17749 | .00707 | -.00039 | .00040 | -.00202 | .14723 | .19477 | .75594 |
| .799 | 8.374 | .00284 | .23336 | .17699 | .00293 | -.00053 | -.00167 | .00074 | .20510 | .20909 | .98289 |
| .799 | 10.502 | .00260 | .31113 | .17669 | .00325 | -.00008 | -.00134 | .00042 | .27371 | .23044 | 1.18776 |
| GRADIENT | | .00032 | .03287 | -.00012 | -.00226 | -.00002 | .00007 | -.00036 | .02969 | -.00085 | .15879 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

PAGE 39

LRC 8 TPT 667 1A41 71P1S1P2

(080014) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 96.0 FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .050

RUN NO. 69/ D RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|----------|
| .951 | -10.702 | -.00496 | -.31981 | .19902 | .07112 | -.00081 | -.00041 | .00283 | -.35589 | .26931 | -1.31906 |
| .901 | -8.541 | -.00391 | -.31590 | .15255 | .04658 | -.00098 | -.00058 | .00257 | -.28291 | .24326 | -1.16297 |
| .900 | -6.460 | -.00334 | -.24613 | .19716 | .03967 | -.00080 | -.00019 | .00178 | -.22244 | .22361 | -.99477 |
| .901 | -4.335 | -.00229 | -.18064 | .19433 | .02552 | -.00032 | .00031 | .00036 | -.16543 | .20743 | -.79751 |
| .901 | -2.206 | .00161 | -.11185 | .19365 | .01866 | -.00006 | .00103 | .00210 | -.10432 | .19781 | -.52757 |
| .901 | -.581 | .00489 | -.03710 | .19351 | .01303 | -.00022 | .00031 | -.00263 | -.03682 | .19376 | -.19074 |
| .910 | 2.066 | .00396 | .04133 | .19323 | .00930 | -.00037 | .00022 | -.00210 | .03434 | .19459 | .17646 |
| .900 | 4.214 | .00303 | .11904 | .19611 | .00242 | -.00047 | .00079 | -.00247 | .10431 | .20433 | .51549 |
| .900 | 6.326 | .00152 | .18839 | .19570 | -.00763 | -.00016 | .00110 | -.00215 | .16368 | .21526 | .76366 |
| .900 | 8.431 | .00112 | .25857 | .19596 | -.01361 | -.00004 | .00002 | -.00554 | .22704 | .23176 | .97965 |
| .901 | 10.585 | .00277 | .34231 | .19485 | -.02280 | .00013 | .00005 | -.00134 | .30069 | .25442 | 1.18186 |
| GRADIENT | | .00061 | .03522 | .00015 | -.00260 | -.00003 | -.00001 | -.00026 | .03174 | -.00544 | .15536 |

RUN NO. 69/ D RNL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|----------|
| .980 | -10.825 | -.00131 | -.39158 | .23063 | .02352 | -.00047 | -.00138 | .00239 | -.34130 | .30006 | -1.13747 |
| .981 | -8.654 | -.00373 | -.30105 | .23150 | .01383 | -.00074 | -.00117 | .00314 | -.26279 | .27416 | -.93850 |
| .981 | -6.503 | -.00407 | -.22574 | .23209 | .01305 | -.00075 | -.00028 | .00209 | -.19800 | .25616 | -.77293 |
| .981 | -4.351 | -.00277 | -.15966 | .22942 | .01252 | -.00005 | .00078 | .00012 | -.14179 | .24087 | -.58866 |
| .981 | -2.217 | .00131 | -.09079 | .22693 | .00696 | .00008 | .00107 | -.00197 | -.08194 | .23028 | -.35583 |
| .981 | -.080 | .00329 | -.01851 | .22870 | .00007 | .00014 | .00114 | -.00174 | -.01820 | .22872 | -.07955 |
| .981 | 2.086 | .00384 | .05325 | .22883 | .00028 | -.00012 | .00141 | -.00349 | .04489 | .23061 | .19454 |
| .980 | 4.213 | .00392 | .12865 | .22931 | -.00567 | -.00025 | .00103 | -.00305 | .1146 | .23814 | .46804 |
| .981 | 6.364 | .00358 | .20264 | .23067 | -.01256 | .00006 | .00223 | -.00448 | .17533 | .25171 | .69853 |
| .980 | 8.510 | .00444 | .27345 | .23091 | -.01519 | .00002 | .00071 | -.00283 | .23627 | .26884 | .87886 |
| .972 | 10.687 | .00786 | .36061 | .22875 | -.02241 | .00032 | .00055 | -.00477 | .31193 | .29165 | 1.16954 |
| GRADIENT | | .00075 | .03963 | .00008 | -.00201 | -.00003 | .00004 | -.00037 | .02955 | -.00024 | .12430 |

TABULATED SOURCE DATA, LARC 6FT.-667 (12-11)

DATE 12 JUL 74

(R0014) (29 JAN 74)

LRC 6 TPT 667 1A41 T1P1S1P2

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 RUDDER = .000

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1292.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 67/0 RWL = 2.12 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CA | CLW | CBL | CYN | CY | CL | CD | L/O |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1.200 | -11.031 | .00039 | -.43269 | .28168 | .02520 | -.00031 | -.00083 | .00096 | -.37080 | .35927 | -1.03208 |
| 1.202 | -6.811 | -.00149 | -.32941 | .27992 | .01428 | -.00063 | -.00065 | .00141 | -.28265 | .32707 | -.86418 |
| 1.203 | -6.824 | -.00466 | -.24667 | .27994 | .01503 | -.00050 | .00097 | .00042 | -.21274 | .30653 | -.69402 |
| 1.202 | -4.412 | -.00396 | -.17073 | .27889 | .01610 | .00123 | .00238 | -.00172 | -.14877 | .29120 | -.51090 |
| 1.202 | -2.249 | -.00031 | -.10240 | .27868 | .01408 | .00018 | .00198 | -.00252 | -.09139 | .28248 | -.32351 |
| 1.202 | -.092 | -.00369 | -.02754 | .27903 | .00839 | .00015 | .00179 | -.00374 | -.02710 | .27908 | -.09709 |
| 1.202 | 2.103 | .00280 | .05176 | .27795 | .00438 | -.00017 | .00226 | -.00404 | .04153 | .27966 | .14850 |
| 1.201 | 4.291 | .00174 | .13123 | .27856 | -.00141 | -.00031 | .00238 | -.00381 | .11003 | .28760 | .38257 |
| 1.201 | 6.443 | -.00055 | .20215 | .27926 | -.00344 | -.00040 | .00232 | -.00316 | .16953 | .30018 | .56476 |
| 1.201 | 8.660 | -.00269 | .28923 | .27929 | -.00844 | -.00007 | .00234 | -.00205 | .24388 | .31965 | .76295 |
| 1.201 | 10.885 | -.00173 | .38791 | .27724 | -.01442 | .00014 | .00319 | -.00361 | .32858 | .34550 | .95102 |
| 1.201 | GRADIENT | .00066 | .03484 | -.00006 | -.00205 | -.00005 | .00001 | -.00026 | .02990 | -.00046 | .10384 |

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

DATE 12 JUL 74

(R88015) (29 JAN 74)

LRC 8 TPT 667 1A41 T1P1S1P2

PARAMETRIC DATA

REFERENCE DATA

SREF = 2890.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 490.0000 INCHES
 SCALE = .0150 SCALE

ALPHA = .000 RUDDER = .000

RUN NO. 76/ 0 RVL = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .601 | -10.230 | -.01360 | -.03416 | .17786 | .02139 | .00016 | .00015 | .10358 | -.03411 | .17787 | -.19177 |
| .599 | -8.239 | -.00948 | -.03533 | .17433 | .02438 | .00008 | -.01059 | .08167 | -.03530 | .17433 | -.20250 |
| .599 | -6.071 | -.00871 | -.03967 | .17077 | .02802 | -.00025 | -.00136 | .00000 | -.03964 | .17077 | -.23213 |
| .599 | -4.099 | -.01119 | -.04283 | .16860 | .02966 | -.00077 | -.00201 | .04100 | -.04280 | .16861 | -.25382 |
| .599 | -1.885 | -.01913 | -.04579 | .16776 | .02933 | -.00102 | -.00188 | .01971 | -.04573 | .16777 | -.27257 |
| .599 | -.009 | -.02479 | -.04525 | .16758 | .02702 | -.00078 | -.00064 | .00029 | -.04518 | .16740 | -.26986 |
| .599 | 2.082 | -.02971 | -.04537 | .16662 | .02549 | -.00033 | .00098 | -.02133 | -.04529 | .16664 | -.27175 |
| .599 | 4.113 | -.02436 | -.04252 | .16722 | .02505 | .00001 | .00000 | -.04279 | -.04244 | .16724 | -.25379 |
| .599 | 6.161 | -.01943 | -.03963 | .16975 | .02443 | .00044 | .00208 | -.06641 | -.03957 | .16976 | -.23311 |
| .600 | 8.250 | -.02011 | -.03854 | .17384 | .02337 | .00065 | .00299 | -.08876 | -.03848 | .17386 | -.22132 |
| .599 | 10.233 | -.01885 | -.03451 | .17751 | .02064 | .00092 | .00355 | -.11393 | -.03445 | .17752 | -.19406 |
| GRADIENT | | -.00181 | .00005 | -.00019 | -.00064 | .00011 | .00055 | -.01024 | .00005 | -.00019 | .00001 |

RUN NO. 75/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| .800 | -10.210 | -.01964 | -.04308 | .18824 | .02483 | -.00155 | -.00615 | .11700 | -.04302 | .18826 | -.22850 |
| .800 | -8.093 | -.01461 | -.04197 | .18369 | .02620 | -.00123 | -.00558 | .09167 | -.04193 | .18370 | -.22823 |
| .800 | -6.079 | -.01004 | -.04110 | .18071 | .02756 | -.00118 | -.00560 | .06934 | -.04107 | .18071 | -.22725 |
| .801 | -4.079 | -.01359 | -.04339 | .17854 | .02786 | -.00128 | -.00520 | .04771 | -.04335 | .17855 | -.24279 |
| .801 | -2.010 | -.01950 | -.04473 | .17686 | .02818 | -.00128 | -.00351 | .02516 | -.04467 | .17687 | -.25257 |
| .800 | .099 | -.02461 | -.04459 | .17657 | .02379 | -.00086 | -.00105 | .00181 | -.04451 | .17659 | -.25208 |
| .770 | 2.038 | -.02666 | -.04327 | .17642 | .02341 | -.00015 | .00164 | -.02174 | -.04519 | .17644 | -.25610 |
| .800 | 4.239 | -.02515 | -.04434 | .17697 | .02336 | .00066 | .00371 | -.04603 | -.04426 | .17699 | -.25009 |
| .800 | 6.152 | -.02225 | -.04348 | .17963 | .02397 | .00109 | .00566 | -.07080 | -.04341 | .17965 | -.24182 |
| .800 | 8.148 | -.02065 | -.04131 | .18331 | .02300 | .00155 | .00716 | -.09636 | -.04124 | .18332 | -.22498 |
| .799 | 10.247 | -.02073 | -.03941 | .18719 | .02147 | .00185 | .00891 | -.12434 | -.03934 | .18720 | -.21017 |
| GRADIENT | | -.00148 | -.00012 | -.00017 | -.00057 | .00024 | .00111 | -.01133 | -.00011 | -.00017 | -.00087 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

PAGE 43

LRC 6 TPT 667 1A41 TIP131P2

(R68015) (29 JAN 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BRFP = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 72/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | ALPHA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.201 | -10.381 | -.04065 | -.03364 | .29519 | .01342 | -.00231 | -.00198 | .14579 | -.03343 | .29521 | -.11325 |
| 1.201 | -8.323 | -.02998 | -.02758 | .29099 | .01205 | -.00185 | -.00327 | .11522 | -.02743 | .29101 | -.09425 |
| 1.201 | -6.176 | -.02388 | -.02461 | .28627 | .01166 | -.00162 | -.00538 | .08637 | -.02449 | .28628 | -.08555 |
| 1.201 | -4.156 | -.02461 | -.02387 | .28286 | .01085 | -.00132 | -.00680 | .05680 | -.02375 | .28287 | -.08395 |
| 1.201 | -2.047 | -.02982 | -.02480 | .28063 | .00993 | -.00091 | -.00426 | .03015 | -.02465 | .28064 | -.08784 |
| 1.200 | .017 | -.03654 | -.02345 | .27902 | .00677 | -.00012 | -.00043 | .00166 | -.02327 | .27904 | -.08340 |
| 1.201 | 2.071 | -.03842 | -.02359 | .28034 | .00629 | .00075 | .00514 | -.02926 | -.02340 | .28035 | -.08340 |
| 1.201 | 4.182 | -.03400 | -.02252 | .28367 | .00685 | .00132 | .00788 | -.05877 | -.02236 | .28368 | -.07880 |
| 1.200 | 6.149 | -.02827 | -.01957 | .28622 | .00635 | .00177 | .00856 | -.08786 | -.01943 | .28623 | -.06788 |
| 1.201 | 8.275 | -.02666 | -.01999 | .29088 | .00718 | .00208 | .00691 | -.11741 | -.01985 | .29089 | -.06825 |
| 1.200 | 10.372 | -.02627 | -.02273 | .29467 | .00944 | .00220 | .00535 | -.15060 | -.02260 | .29468 | -.07668 |
| GRADIENT | | -.00132 | .00019 | .00507 | -.00056 | .00033 | .00187 | -.01419 | .00019 | .00007 | .00071 |

LRC 8 TPT 667 IA41 T1P131200

(R00010) (29 JAN 74)

REFERENCE DATA

SHEP = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 81/ 0 RV/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|----------|
| .599 | -11.970 | 5.29394 | -.80146 | .26940 | .19274 | .08368 | .09013 | -.20200 | -.72817 | .42977 | -1.69432 |
| .599 | -9.716 | 5.33982 | -.83595 | .27130 | .19077 | .08224 | .09124 | -.20306 | -.60076 | .37811 | -1.58887 |
| .600 | -7.390 | 5.37018 | -.51290 | .27138 | .07277 | .07932 | .09129 | -.20226 | -.47373 | .33510 | -1.41371 |
| .598 | -5.170 | 5.39537 | -.38367 | .27092 | .02211 | .07747 | .09334 | -.20553 | -.35770 | .30439 | -1.17512 |
| .599 | -2.858 | 5.41593 | -.25871 | .26919 | -.02389 | .07572 | .09451 | -.20785 | -.24497 | .28175 | -.86945 |
| .599 | -.638 | 5.42859 | -.14188 | .26697 | -.06569 | .07427 | .09489 | -.21003 | -.13890 | .26854 | -.51726 |
| .599 | 1.628 | 5.44611 | -.02559 | .26245 | -.10444 | .07454 | .09624 | -.21646 | -.03503 | .26162 | -.12626 |
| .600 | 3.920 | 5.43593 | .09825 | .25524 | -.14531 | .07131 | .09486 | -.21512 | .08057 | .26136 | .30826 |
| .600 | 6.262 | 5.41030 | .22848 | .24524 | -.18595 | .06717 | .09212 | -.21090 | .20037 | .26870 | .74571 |
| .598 | 8.520 | 5.37524 | .35418 | .23221 | -.22797 | .06300 | .08855 | -.20576 | .31587 | .28212 | 1.11965 |
| .600 | 10.791 | 5.33684 | .49378 | .21780 | -.27839 | .06044 | .08842 | -.20448 | .44427 | .30639 | 1.45020 |
| GRADIENT | | .00342 | .05253 | -.00206 | -.01783 | -.00057 | .00011 | -.00125 | .04790 | -.00300 | .17368 |

RUN NO. 80/ 0 RV/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .799 | -11.564 | 5.20823 | -.77384 | .29449 | .16091 | .08592 | .10566 | -.21885 | -.69910 | .44364 | -1.57582 |
| .801 | -9.300 | 5.25342 | -.62069 | .29218 | .09882 | .08768 | .10920 | -.22471 | -.56532 | .38865 | -1.45458 |
| .801 | -7.035 | 5.28341 | -.47903 | .28929 | .04358 | .08580 | .10953 | -.22513 | -.44000 | .34378 | -1.27248 |
| .801 | -4.874 | 5.30589 | -.34811 | .28794 | -.00704 | .08387 | .10955 | -.22581 | -.32238 | .31648 | -1.01865 |
| .800 | -2.635 | 5.32133 | -.22732 | .28451 | -.05164 | .08199 | .10964 | -.22673 | -.21400 | .29466 | -.72624 |
| .800 | -.501 | 5.33637 | -.11002 | .28209 | -.09446 | .08186 | .11127 | -.23188 | -.10755 | .28504 | -.37999 |
| .799 | 1.745 | 5.34063 | .00787 | .27586 | -.13592 | .08037 | .10999 | -.23323 | -.60048 | .27397 | -.00174 |
| .800 | 4.034 | 5.33141 | .14172 | .26859 | -.18081 | .07673 | .10830 | -.23190 | .12247 | .27790 | .44072 |
| .800 | 6.130 | 5.31327 | .26557 | .26508 | -.22529 | .07512 | .10863 | -.23196 | .25574 | .29192 | .80755 |
| .799 | 8.339 | 5.28265 | .39568 | .26163 | -.27489 | .07342 | .10361 | -.22549 | .35356 | .31625 | 1.11798 |
| .600 | 10.518 | 5.25655 | .52123 | .26201 | -.32518 | .07266 | .09802 | -.22268 | .46464 | .39276 | 1.31718 |
| GRADIENT | | .00315 | .05474 | -.00223 | -.01945 | -.00072 | -.00010 | -.00084 | .04971 | -.00439 | .16422 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

LRC 8 TPT 667 IA41 T1P1S1P201

(R88016) (29 JAN 74)

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

REFERENCE DATA

REF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
LREF = 1295.3000 INCHES YMRP = .0000 INCHES
BREF = 1295.3000 INCHES YMRP = 400.0000 INCHES
SCALE = .0150 SCALE

RUN NO. 79/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .900 | -11.806 | 5.29382 | -81420 | .32659 | .15796 | .09996 | .12636 | -.23409 | -.73016 | .48826 | -1.50157 |
| .902 | -9.905 | 5.33917 | -64080 | .32377 | .08349 | .10116 | .13267 | -.26165 | -.57854 | .42514 | -1.36083 |
| .901 | -7.254 | 5.36785 | -47927 | .32141 | .01549 | .10002 | .13397 | -.26235 | -.43485 | .37936 | -1.14626 |
| .901 | -5.013 | 5.38571 | -33123 | .32130 | -.04479 | .09639 | .13343 | -.26018 | -.30189 | .34901 | -.86500 |
| .900 | -2.747 | 5.39631 | -19368 | .31929 | -.05656 | .09286 | .13044 | -.25626 | -.17015 | .32820 | -.54282 |
| .901 | -.514 | 5.40877 | -.06242 | .31593 | -.14510 | .09094 | .13055 | -.25826 | -.05959 | .31648 | -.18228 |
| .901 | 1.757 | 5.41327 | .07080 | .31204 | -.19718 | .09004 | .13121 | -.26116 | .06120 | .31407 | .19485 |
| .900 | 3.954 | 5.40630 | .19278 | .30852 | -.24268 | .08713 | .12708 | -.25836 | .17104 | .32198 | .53271 |
| .901 | 6.212 | 5.39118 | .32033 | .30510 | -.28186 | .08311 | .12022 | -.25304 | .28543 | .33797 | .84454 |
| .900 | 8.457 | 5.36920 | .44847 | .30498 | -.33544 | .08159 | .11352 | -.24826 | .39874 | .36762 | 1.08466 |
| .901 | 10.672 | 5.33451 | .56940 | .30273 | -.37665 | .07919 | .10561 | -.24065 | .50349 | .40294 | 1.24953 |
| GRADIENT | | .05155 | .03778 | -.00162 | -.02192 | -.00081 | -.00042 | -.00041 | .05222 | -.00107 | .16135 |

RUN NO. 78/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .979 | -12.251 | 5.39700 | -.89582 | .40529 | .14611 | .11932 | .14765 | -.29868 | -.78454 | .58510 | -1.34087 |
| .980 | -9.805 | 5.41766 | -.69324 | .40678 | .06567 | .11324 | .14716 | -.29074 | -.61384 | .51889 | -1.18298 |
| .980 | -7.473 | 5.43287 | -.52333 | .40699 | -.00090 | .10672 | .14417 | -.28234 | -.46596 | .47159 | -.98905 |
| .979 | -5.129 | 5.44385 | -.37655 | .40723 | -.05630 | .10155 | .14361 | -.27749 | -.33795 | .43979 | -.76844 |
| .980 | -2.874 | 5.44700 | -.23276 | .40820 | -.10786 | .09546 | .14027 | -.27096 | -.21210 | .41736 | -.59620 |
| .979 | -.626 | 5.45584 | -.09062 | .40595 | -.16048 | .09053 | .13740 | -.26938 | -.08618 | .40692 | -.21179 |
| .979 | 1.677 | 5.45318 | .05661 | .40596 | -.22036 | .08558 | .13461 | -.26611 | .04471 | .40744 | .15372 |
| .980 | 3.919 | 5.44855 | .19071 | .40467 | -.27673 | .08323 | .12848 | -.26180 | .16261 | .41676 | .39517 |
| .980 | 6.220 | 5.42515 | .33637 | .40082 | -.33459 | .08096 | .12574 | -.25806 | .29596 | .43490 | .68902 |
| .980 | 8.460 | 5.39014 | .46819 | .39712 | -.38505 | .07764 | .11893 | -.24902 | .40467 | .46168 | .87652 |
| .980 | 10.702 | 5.35732 | .59561 | .39232 | -.42990 | .07594 | .11087 | -.24212 | .51240 | .49610 | 1.03286 |
| GRADIENT | | .00004 | .06250 | -.00020 | -.02498 | -.00184 | -.00168 | .00136 | .05553 | -.00006 | .13501 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

(R00016) (29 JAN 74)

LRC 8 TPT 667 IA41 TIP1SIP201

PARAMETRIC DATA

BETA = 3.000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0130 SCALE

RUN NO. 77/0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1.201 | -10.620 | 5.50401 | -.76698 | .49953 | .06337 | .11626 | .13546 | -.28040 | -.60672 | .59910 | -1.14625 |
| 1.201 | -10.161 | 5.50405 | -.75630 | .45892 | .04499 | .11314 | .13248 | -.28237 | -.64379 | .58161 | -1.10690 |
| 1.201 | -7.799 | 5.49673 | -.54735 | .45674 | -.02840 | .09954 | .12193 | -.26094 | -.48011 | .52678 | -.91179 |
| 1.201 | -5.442 | 5.49963 | -.38312 | .45340 | -.08840 | .08944 | .11310 | -.24820 | -.33839 | .48769 | -.59387 |
| 1.201 | -3.032 | 5.50505 | -.22150 | .44933 | -.14792 | .08269 | .11140 | -.24160 | -.19726 | .46049 | -.42837 |
| 1.201 | -.696 | 5.51398 | -.06887 | .44658 | -.20225 | .07956 | .11070 | -.24133 | -.06344 | .44718 | -.14187 |
| 1.201 | 1.621 | 5.52158 | .07386 | .44661 | -.25601 | .07824 | .11061 | -.24373 | .06119 | .44832 | .13643 |
| 1.201 | 3.987 | 5.51788 | .21072 | .44009 | -.30839 | .07667 | .10567 | -.24095 | .17961 | .45368 | .39590 |
| 1.201 | 6.277 | 5.49864 | .34934 | .43268 | -.35784 | .07444 | .10137 | -.23700 | .29993 | .46829 | .64049 |
| 1.201 | 8.605 | 5.45908 | .48716 | .42415 | -.40698 | .07070 | .09370 | -.22682 | .41824 | .49227 | .84961 |
| 1.201 | 10.896 | 5.44889 | .61533 | .41740 | -.44500 | .07439 | .09338 | -.23370 | .52534 | .52620 | .99837 |
| 1.201 | GRADIENT | -.00196 | .06142 | -.00117 | -.02284 | -.00083 | -.00074 | -.00002 | .05356 | -.00081 | .11739 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

PAGE 47

LRC 8 TPT 667 1A41 T1P1S1P201

(R08017) (29 JAN 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1790.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = 5.000

PARAMETRIC DATA

RUN NO. 86/ 0 RN/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|----------|
| .600 | -11.064 | 5.31337 | -.81345 | .28421 | .20129 | .08811 | .12980 | -.24307 | -.73764 | .44538 | -1.65621 |
| .600 | -9.490 | 5.35335 | -.65819 | .28595 | .13505 | .08596 | .13010 | -.24273 | -.60231 | .39014 | -1.54383 |
| .599 | -7.210 | 5.38462 | -.50907 | .28664 | .07316 | .08393 | .13221 | -.24533 | -.46907 | .34827 | -1.34686 |
| .600 | -4.971 | 5.40819 | -.38205 | .28599 | .02381 | .08128 | .13362 | -.24675 | -.35583 | .31802 | -1.11890 |
| .600 | -2.648 | 5.42874 | -.25303 | .28419 | -.02358 | .07969 | .13510 | -.24981 | -.23963 | .29558 | -.81073 |
| .600 | -.408 | 5.45039 | -.14091 | .28218 | -.06390 | .07994 | .13755 | -.25655 | -.13890 | .28317 | -.49050 |
| .599 | 1.892 | 5.45422 | -.02275 | .27716 | -.10368 | .07837 | .13708 | -.25823 | -.03189 | .27625 | -.11544 |
| .600 | 4.124 | 5.44359 | .10020 | .27011 | -.14364 | .07521 | .13600 | -.25706 | .08051 | .27661 | .29107 |
| .599 | 6.359 | 5.41564 | .22330 | .25985 | -.18190 | .07060 | .13213 | -.25105 | .19315 | .28298 | .68254 |
| .599 | 8.711 | 5.38083 | .35519 | .24547 | -.22605 | .06615 | .12763 | -.24525 | .31392 | .29644 | 1.05897 |
| .599 | 10.960 | 5.34078 | .49959 | .23039 | -.27788 | .05283 | .12773 | -.24424 | .44668 | .32118 | 1.39074 |
| GRADIENT | | .00425 | .05257 | -.00170 | -.01826 | -.00059 | .00030 | -.00128 | .04753 | -.00450 | .15461 |

RUN NO. 85/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .799 | -11.393 | 5.21820 | -.78060 | .30933 | .16903 | .08985 | .14404 | -.25826 | -.70412 | .45744 | -1.53927 |
| .801 | -9.070 | 5.26490 | -.62806 | .30738 | .10727 | .09200 | .14728 | -.26417 | -.57175 | .40255 | -1.42032 |
| .800 | -6.902 | 5.29200 | -.48459 | .30544 | .05038 | .08978 | .14717 | -.26401 | -.44437 | .36147 | -1.22936 |
| .799 | -4.723 | 5.31251 | -.35541 | .30375 | .00074 | .08768 | .14768 | -.26468 | -.32919 | .33198 | -.99158 |
| .798 | -2.466 | 5.32727 | -.22847 | .30208 | -.04633 | .08539 | .14717 | -.26490 | -.21535 | .30963 | -.69550 |
| .799 | -.260 | 5.33983 | -.11019 | .29715 | -.08941 | .08490 | .14869 | -.26915 | -.10884 | .29765 | -.36566 |
| .799 | 1.893 | 5.34386 | .00823 | .28971 | -.13294 | .08332 | .14731 | -.27036 | -.00134 | .28982 | -.00462 |
| .798 | 4.093 | 5.33509 | .13618 | .28448 | -.17480 | .08011 | .14665 | -.27060 | .11553 | .29347 | .39366 |
| .799 | 6.353 | 5.31407 | .26875 | .27908 | -.22191 | .07786 | .14661 | -.26973 | .23621 | .30711 | .76917 |
| .800 | 8.541 | 5.28421 | .39903 | .27619 | -.27284 | .07628 | .14148 | -.26321 | .33360 | .33239 | 1.06381 |
| .799 | 10.736 | 5.25355 | .52092 | .27580 | -.32036 | .07482 | .13510 | -.25879 | .46030 | .36817 | 1.25023 |
| GRADIENT | | .00282 | .05547 | -.00222 | -.01990 | -.00078 | -.00009 | -.00079 | .05018 | -.00442 | .15733 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

PAGE 48

LRC 8 TPT 667 1A41 T1P1S1P201

(R08017) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000

RUN NO. 84/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .900 | -11.600 | 5.30308 | -81889 | .34116 | .16516 | .10340 | .17032 | -.29792 | -.73356 | .49885 | -1.47032 |
| .900 | -9.352 | 5.34349 | -.64344 | .33873 | .09037 | .10397 | .17347 | -.30132 | -.57985 | .43879 | -1.32148 |
| .900 | -7.005 | 5.37266 | -.47580 | .33870 | .01870 | .10237 | .17250 | -.29986 | -.43095 | .39420 | -1.09323 |
| .900 | -4.832 | 5.38882 | -.33466 | .33785 | -.03823 | .09881 | .17107 | -.29704 | -.30501 | .36485 | -.83600 |
| .900 | -2.553 | 5.40100 | -.19283 | .33580 | -.09230 | .09561 | .16939 | -.29484 | -.17768 | .34406 | -.51644 |
| .900 | -.324 | 5.41174 | -.06423 | .33171 | -.14011 | .09371 | .16883 | -.29617 | -.06235 | .33207 | -.18777 |
| .900 | 1.926 | 5.41293 | .06850 | .32818 | -.19194 | .09215 | .16883 | -.29744 | .05743 | .33040 | .17382 |
| .899 | 4.094 | 5.40484 | .19148 | .32181 | -.23704 | .08889 | .16418 | -.29408 | .16802 | .33466 | .50207 |
| .899 | 6.423 | 5.38930 | .31982 | .31967 | -.27728 | .08488 | .15807 | -.28946 | .28206 | .35344 | .79853 |
| .899 | 8.564 | 5.37008 | .44555 | .31815 | -.32902 | .08396 | .15192 | -.28603 | .39321 | .38095 | 1.03216 |
| .899 | 10.863 | 5.33014 | .56946 | .31465 | -.37106 | .08050 | .14200 | -.27548 | .49995 | .41634 | 1.20083 |
| GRADIENT | | .00198 | .05883 | -.00177 | -.02226 | -.00104 | -.00064 | .00015 | .05290 | -.00333 | .15073 |

RUN NO. 83/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/D |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| .979 | -11.925 | 5.40456 | -.87543 | .42095 | .14577 | .12142 | .18996 | -.33947 | -.76956 | .59275 | -1.29830 |
| .981 | -9.654 | 5.42639 | -.69501 | .42293 | .07132 | .11580 | .18873 | -.33232 | -.61407 | .55417 | -1.14894 |
| .979 | -7.226 | 5.43723 | -.51988 | .42258 | .00381 | .10853 | .18558 | -.32257 | -.48260 | .48462 | -.95456 |
| .980 | -4.922 | 5.44172 | -.35863 | .42335 | -.05464 | .10317 | .18374 | -.31666 | -.35090 | .45345 | -.72974 |
| .980 | -2.653 | 5.45096 | -.22989 | .42411 | -.10440 | .09711 | .17997 | -.30977 | -.21002 | .43429 | -.48358 |
| .981 | -.406 | 5.45936 | -.08636 | .42464 | -.15922 | .09173 | .17622 | -.30702 | -.08334 | .42524 | -.19599 |
| .979 | 1.892 | 5.44958 | .05894 | .42185 | -.21822 | .08636 | .17234 | -.30148 | .04498 | .42357 | .10820 |
| .979 | 4.192 | 5.44463 | .20384 | .41698 | -.27862 | .08413 | .16575 | -.29707 | .17284 | .43037 | .40162 |
| .979 | 6.441 | 5.42191 | .34008 | .41513 | .33229 | .08236 | .16367 | -.29421 | .29114 | .45080 | .64584 |
| .979 | 8.670 | 5.38724 | .47545 | .40779 | -.38468 | .07915 | .15571 | -.28446 | .40854 | .47481 | .86044 |
| .978 | 10.957 | 5.35318 | .60350 | .40241 | -.42817 | .07734 | .14685 | -.27682 | .51602 | .50978 | 1.01225 |
| GRADIENT | | -.00028 | .06233 | -.00070 | -.02466 | -.00214 | -.00191 | .00208 | .05541 | -.00249 | .12520 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

DATE 12 JUL 74

(R08017) (29 JAN 74)

LRC 6 TPT 667 IA41 T1P1S1P201

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = 5.000

RUN NO. 82/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| INCH | ALPHA | BETA | CN | CA | CLM | CBL | CYN | CY | CL | CD | L/O |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1.200 | -10.919 | 5.50664 | -.79537 | .46593 | .07645 | .11806 | .17056 | -.38327 | -.69272 | .60815 | -1.13803 |
| 1.201 | -9.979 | 5.50443 | -.72109 | .46507 | .04600 | .11333 | .16591 | -.31375 | -.62959 | .58299 | -1.07992 |
| 1.202 | -7.957 | 5.49986 | -.53574 | .46280 | -.02590 | .09973 | .15504 | -.29250 | -.47022 | .52924 | -.88848 |
| 1.201 | -5.214 | 5.50059 | -.37309 | .46017 | -.08593 | .08965 | .14766 | -.27908 | -.32973 | .49217 | -.66996 |
| 1.201 | -2.832 | 5.50846 | -.21488 | .45634 | -.14457 | .08373 | .14379 | -.27320 | -.19207 | .46640 | -.41182 |
| 1.201 | -.469 | 5.51766 | -.06141 | .45666 | -.20121 | .08084 | .14233 | -.27251 | -.05768 | .45614 | -.12643 |
| 1.201 | 1.915 | 5.52271 | .08486 | .45612 | -.25692 | .07932 | .14127 | -.27361 | .06957 | .45870 | .15168 |
| 1.201 | 4.134 | 5.52164 | .21489 | .44974 | -.30722 | .07797 | .13559 | -.27079 | .18191 | .46406 | .39201 |
| 1.201 | 6.438 | 5.49508 | .35139 | .44172 | -.35609 | .07506 | .13018 | -.26409 | .29964 | .47834 | .62642 |
| 1.201 | 8.748 | 5.45746 | .48970 | .43312 | -.40494 | .07171 | .12270 | -.25463 | .41813 | .50257 | .83199 |
| 1.201 | 11.084 | 5.44632 | .61829 | .42597 | -.44169 | .07631 | .12369 | -.26304 | .52486 | .53689 | .97759 |
| 1.201 | GRADIENT | .00193 | .06166 | -.00082 | -.02336 | -.00081 | -.00109 | .00026 | .05367 | -.00021 | .11556 |

(R00101) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 5/0 RV/L = 3.19 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .599 | -11.936 | -.22430 | -.23186 | -.49394 | -.36645 | -.43513 | -.23581 |
| .601 | -9.688 | -.21116 | -.22159 | -.47648 | -.35831 | -.43105 | -.22879 |
| .603 | -7.369 | -.20104 | -.21190 | -.45519 | -.34177 | -.41280 | -.22202 |
| .605 | -4.984 | -.19237 | -.20432 | -.43285 | -.31750 | -.39490 | -.21464 |
| .599 | -2.819 | -.18278 | -.19571 | -.41862 | -.29463 | -.38661 | -.20663 |
| .600 | -.601 | -.17465 | -.18922 | -.40834 | -.28087 | -.37012 | -.20146 |
| .600 | 1.685 | -.16496 | -.18185 | -.39868 | -.26816 | -.35699 | -.19335 |
| .600 | 3.928 | -.15925 | -.17682 | -.39286 | -.26027 | -.35866 | -.18716 |
| .600 | 6.219 | -.15540 | -.17243 | -.38967 | -.25432 | -.36320 | -.17990 |
| .600 | 8.514 | -.15113 | -.16827 | -.38545 | -.24981 | -.37650 | -.17133 |
| .600 | 10.832 | -.14793 | -.16548 | -.38444 | -.28308 | -.38109 | -.16835 |
| GRADIENT | | .00376 | .00312 | .00447 | .00828 | .00457 | .00506 |

RUN NO. 4/0 RV/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .800 | -11.449 | -.24611 | -.24850 | -.48828 | -.34543 | -.39357 | -.25567 |
| .801 | -9.218 | -.23170 | -.23640 | -.46675 | -.34422 | -.39433 | -.24383 |
| .800 | -6.950 | -.21974 | -.22674 | -.44448 | -.33099 | -.38283 | -.23826 |
| .800 | -4.828 | -.20948 | -.21614 | -.42083 | -.30967 | -.36463 | -.22593 |
| .800 | -2.575 | -.19691 | -.20834 | -.40789 | -.29164 | -.35545 | -.21814 |
| .800 | -.453 | -.18789 | -.19855 | -.39406 | -.26447 | -.33627 | -.20681 |
| .800 | 1.740 | -.18332 | -.19303 | -.38516 | -.24971 | -.32259 | -.20026 |
| .799 | 3.940 | -.18596 | -.19409 | -.38704 | -.25421 | -.33662 | -.19926 |
| .800 | 6.154 | -.18540 | -.19299 | -.38175 | -.25917 | -.34774 | -.19480 |
| .799 | 8.326 | -.18972 | -.19545 | -.38539 | -.27616 | -.36176 | -.19597 |
| .799 | 10.557 | -.19395 | -.19805 | -.39644 | -.30199 | -.38284 | -.19778 |
| GRADIENT | | .00287 | .00272 | .00413 | .00699 | .00406 | .00326 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

(R08101) (29 JAN 74)

LRC 8 TPT 667 1A41 TIP1SIP2OIFR1

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = .000 RUDDER = .000

RUN NO. 3/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .899 | -11.762 | -.27907 | -.27896 | -.50372 | -.35813 | -.39599 | -.31146 |
| .901 | -9.449 | -.26805 | -.26745 | -.46267 | -.35153 | -.38128 | -.28408 |
| .900 | -7.209 | -.25822 | -.25904 | -.44272 | -.33935 | -.37216 | -.27107 |
| .899 | -4.936 | -.24582 | -.24926 | -.43332 | -.33096 | -.36165 | -.25983 |
| .900 | -2.704 | -.23449 | -.23948 | -.41530 | -.30901 | -.34646 | -.24937 |
| .900 | -.455 | -.22748 | -.23690 | -.39260 | -.26366 | -.32512 | -.24747 |
| .900 | 1.755 | -.22785 | -.23748 | -.37484 | -.24735 | -.31816 | -.24782 |
| .899 | 3.970 | -.22929 | -.23869 | -.37625 | -.25262 | -.32654 | -.24949 |
| .899 | 6.217 | -.23221 | -.23679 | -.38401 | -.28878 | -.35973 | -.24125 |
| .899 | 8.440 | -.23102 | -.23335 | -.39995 | -.32295 | -.38361 | -.24687 |
| .898 | 10.644 | -.22530 | -.22865 | -.41287 | -.35424 | -.39391 | -.24741 |
| GRADIENT | | .00179 | .00104 | .00694 | .00982 | .00443 | .00100 |

RUN NO. 2/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .981 | -12.079 | -.36213 | -.37293 | -.53341 | -.47639 | -.50409 | -.43236 |
| .979 | -9.747 | -.35315 | -.35534 | -.50455 | -.45370 | -.48304 | -.39379 |
| .981 | -7.429 | -.34319 | -.34347 | -.49310 | -.44484 | -.47234 | -.36892 |
| .981 | -5.143 | -.33015 | -.33067 | -.47748 | -.43795 | -.46619 | -.35113 |
| .979 | -2.801 | -.31136 | -.31493 | -.45850 | -.41125 | -.43308 | -.33439 |
| .979 | -.558 | -.30348 | -.31513 | -.47449 | -.38465 | -.43791 | -.33438 |
| .979 | 1.889 | -.30223 | -.31683 | -.48515 | -.37805 | -.43439 | -.33275 |
| .979 | 3.925 | -.30714 | -.32250 | -.48063 | -.39740 | -.46095 | -.33862 |
| .978 | 6.219 | -.29645 | -.31284 | -.47399 | -.43106 | -.49127 | -.33023 |
| .979 | 8.477 | -.29596 | -.31855 | -.47734 | -.47888 | -.52138 | -.33885 |
| .979 | 10.713 | -.29159 | -.31560 | -.46693 | -.50856 | -.55211 | -.33696 |
| GRADIENT | | .00062 | -.00109 | -.00344 | .00215 | -.00089 | -.00049 |

(R00101) (29 JAN 74)

LRC 8 TPT 667 1A41 TIP1S1P2Q1FR1

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0190 SCALE

RUN NO. 1/0 RM/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|---------|---------|---------|---------|---------|---------|
| 1.201 | -12.522 | -.32458 | -.32935 | -.44984 | -.40869 | -.46839 | -.36004 |
| 1.201 | -10.086 | -.31905 | -.32209 | -.44259 | -.40400 | -.47207 | -.35435 |
| 1.201 | -7.685 | -.30538 | .30666 | -.43352 | -.39981 | -.47320 | -.32363 |
| 1.201 | -5.304 | -.29343 | -.29290 | -.42383 | -.39413 | -.45891 | -.30039 |
| 1.201 | -2.956 | -.27763 | -.27958 | -.41201 | -.37960 | -.44848 | -.28873 |
| 1.201 | -.627 | -.26130 | -.27231 | -.40675 | -.37961 | -.44812 | -.28657 |
| 1.201 | 1.676 | -.24732 | -.26242 | -.40186 | -.38125 | -.45182 | -.28545 |
| 1.201 | 3.992 | -.24499 | -.26086 | -.39921 | -.40926 | -.47062 | -.28864 |
| 1.201 | 6.239 | -.24351 | -.26032 | -.39868 | -.40638 | -.46845 | -.28865 |
| 1.201 | 8.559 | -.23518 | -.24849 | -.35368 | -.41297 | -.47752 | -.27720 |
| 1.201 | 10.832 | -.24090 | -.25392 | -.35778 | -.42015 | -.47393 | -.28188 |
| 1.201 | GRADIENT | .00484 | .00285 | .00317 | -.00391 | -.00303 | .00006 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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LRC 8 TPT 667 IA41 TIP1SIP20IFR1

(R08102) (29 JAN 74)

REFERENCE DATA

SRFP = 2690.0000 SA.FT. XMRP = 976.0000 INCHES
 LRFP = 1290.3000 INCHES YMRP = .0000 INCHES
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 10/ 0 RM/L = 3.20 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .600 | -10.939 | -.23887 | -.24862 | -.43334 | -.38872 | -.44996 | -.25526 |
| .601 | -8.733 | -.22176 | -.23218 | -.42635 | -.37610 | -.43804 | -.23901 |
| .600 | -6.555 | -.21038 | -.21892 | -.41861 | -.35927 | -.42267 | -.22674 |
| .600 | -4.369 | -.19725 | -.20363 | -.41226 | -.33715 | -.40794 | -.21902 |
| .600 | -2.190 | -.18336 | -.19468 | -.40653 | -.30986 | -.38765 | -.21461 |
| .605 | -.029 | -.17341 | -.18858 | -.40607 | -.28082 | -.36975 | -.20124 |
| .600 | 2.148 | -.17941 | -.19175 | -.41332 | -.24779 | -.34738 | -.19518 |
| .599 | 4.321 | -.19002 | -.20221 | -.42095 | -.22350 | -.32397 | -.19814 |
| .600 | 6.507 | -.20503 | -.21346 | -.43050 | -.20887 | -.30739 | -.20478 |
| .600 | 8.705 | -.22526 | -.23007 | -.43849 | -.19614 | -.29907 | -.21541 |
| .600 | 10.901 | -.24797 | -.25123 | -.44671 | -.18640 | -.29114 | -.23212 |
| | GRADIENT | .00085 | .00045 | -.00111 | .01332 | .00959 | .00282 |

RUN NO. 9/ 0 RM/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .799 | -10.717 | -.25740 | -.26342 | -.42201 | -.40705 | -.43741 | -.27499 |
| .800 | -8.555 | -.23542 | -.24338 | -.41636 | -.39348 | -.42338 | -.25316 |
| .800 | -6.414 | -.22235 | -.22848 | -.40807 | -.36950 | -.39781 | -.24267 |
| .799 | -4.261 | -.21075 | -.21608 | -.39603 | -.33936 | -.37540 | -.22978 |
| .799 | -2.148 | -.19742 | -.20478 | -.39589 | -.30799 | -.35843 | -.21874 |
| .800 | -.029 | -.18787 | -.19798 | -.39316 | -.26935 | -.33852 | -.20574 |
| .799 | 2.112 | -.19509 | -.20183 | -.39879 | -.24061 | -.32383 | -.20546 |
| .799 | 4.246 | -.20632 | -.21379 | -.41227 | -.22061 | -.30681 | -.21198 |
| .799 | 6.385 | -.22269 | -.22701 | -.42081 | -.20368 | -.29372 | -.21873 |
| .799 | 8.518 | -.24118 | -.24336 | -.42889 | -.19216 | -.29137 | -.23248 |
| .798 | 10.683 | -.26145 | -.26275 | -.43523 | -.19028 | -.28826 | -.24977 |
| | GRADIENT | .00082 | .00035 | -.00147 | .01430 | .00787 | .00229 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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LRC 8 TPT 667 IA41 T1P1S1P2C1FR1

(R00102) (29 JAN 74)

REFERENCE DATA

REF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 6/0 RV/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .900 | -10.880 | -.30573 | -.31189 | -.44367 | -.44064 | -.46438 | -.31494 |
| .900 | -8.606 | -.27666 | -.28492 | -.43633 | -.42634 | -.44374 | -.29046 |
| .900 | -6.301 | -.26176 | -.26646 | -.42163 | -.39208 | -.40361 | -.27863 |
| .900 | -4.346 | -.24773 | -.25198 | -.40862 | -.35635 | -.37604 | -.26590 |
| .900 | -2.185 | -.23573 | -.23862 | -.39916 | -.32730 | -.35690 | -.25237 |
| .899 | -.008 | -.22896 | -.23719 | -.38906 | -.27528 | -.32727 | -.24733 |
| .899 | 2.126 | -.22901 | -.23021 | -.41415 | -.25461 | -.34147 | -.23424 |
| .900 | 4.298 | -.24959 | -.24884 | -.42645 | -.22966 | -.32348 | -.24719 |
| .899 | 6.476 | -.26945 | -.26788 | -.43653 | -.21095 | -.31255 | -.26327 |
| .899 | 8.642 | -.29006 | -.28858 | -.44754 | -.20047 | -.30348 | -.28667 |
| .899 | 10.842 | -.31643 | -.31334 | -.45934 | -.20704 | -.29943 | -.30574 |
| | GRADIENT | .00014 | .00066 | -.00234 | .01529 | .00540 | .00253 |

RUN NO. 7/0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .981 | -11.039 | -.39002 | -.39233 | -.51484 | -.55594 | -.60910 | -.42299 |
| .981 | -8.770 | -.36464 | -.37033 | -.51136 | -.53937 | -.59019 | -.39244 |
| .991 | -6.580 | -.33936 | -.34530 | -.50244 | -.52256 | -.56626 | -.36848 |
| .981 | -4.378 | -.32436 | -.33057 | -.48596 | -.50426 | -.53679 | -.35335 |
| .980 | -2.194 | -.30579 | -.31400 | -.47611 | -.46578 | -.49472 | -.33829 |
| .980 | -.021 | -.30370 | -.31446 | -.48256 | -.41744 | -.46572 | -.33561 |
| .980 | 2.155 | -.30704 | -.31106 | -.48330 | -.39474 | -.45428 | -.31697 |
| .979 | 4.338 | -.33164 | -.32956 | -.48883 | -.36482 | -.42007 | -.32231 |
| .979 | 6.534 | -.36149 | -.35804 | -.50695 | -.33035 | -.39548 | -.34616 |
| .978 | 8.726 | -.38340 | -.37893 | -.52442 | -.30434 | -.36999 | -.36786 |
| .978 | 10.959 | -.40536 | -.39861 | -.53496 | -.30502 | -.35634 | -.39609 |
| | GRADIENT | -.00073 | .00025 | -.00059 | .01606 | .01256 | .00383 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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LRC 6 TPT 667 IA41 T1P1S1P201FRI

(RQ8102) (29 JAN 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCH YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 6/ 0 RNVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|---------|---------|---------|---------|---------|---------|
| 1.202 | -8.940 | -.3076 | -.30811 | -.42482 | -.45025 | -.49987 | -.33914 |
| 1.202 | -6.679 | -.29407 | -.29442 | -.41734 | -.44277 | -.49576 | -.32217 |
| 1.203 | -4.444 | -.28114 | -.28190 | -.40888 | -.43395 | -.49252 | -.30511 |
| 1.200 | -2.239 | -.26431 | -.26793 | -.40006 | -.41373 | -.48262 | -.27839 |
| 1.199 | -.025 | -.25151 | -.26503 | -.40230 | -.37711 | -.45033 | -.27715 |
| 1.200 | 2.176 | -.27191 | -.27410 | -.39112 | -.34851 | -.41198 | -.28328 |
| 1.200 | 4.387 | -.29576 | -.28750 | -.39472 | -.32240 | -.37299 | -.29174 |
| 1.200 | 6.615 | -.30413 | -.30100 | -.40550 | -.29480 | -.34287 | -.30011 |
| 1.200 | 8.857 | -.31993 | -.31724 | -.41863 | -.28809 | -.34466 | -.30959 |
| 1.199 | 11.144 | -.33186 | -.32877 | -.43526 | -.28536 | -.33901 | -.32822 |
| | GRADIENT | -.00121 | -.00379 | .00169 | .01306 | .01403 | .00099 |

LRC 8 TPT 667 1A41 T1P1S1P2Q1

(R00103) (29 JAN 74)

REFERENCE DATA

SHEP = 2690.0000 SQ.FT. WARP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YWAP = .0000 INCHES
 BREF = 1290.3000 INCHES ZWAP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 15/ 0 RV/L = 3.19 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .596 | -10.743 | -.23271 | -.24818 | -.43174 | -.37357 | -.43457 | -.25115 |
| .599 | -8.711 | -.20831 | -.21901 | -.43303 | -.36416 | -.43473 | -.22563 |
| .594 | -6.479 | -.19379 | -.20284 | -.42824 | -.35243 | -.42370 | -.21213 |
| .596 | -4.382 | -.19490 | -.20617 | -.40774 | -.32495 | -.37571 | -.21286 |
| .595 | -2.153 | -.18593 | -.19427 | -.40320 | -.29942 | -.36049 | -.20682 |
| .595 | .084 | -.17301 | -.18956 | -.39944 | -.26690 | -.33674 | -.20250 |
| .595 | 2.124 | -.17499 | -.19463 | -.39637 | -.23392 | -.31380 | -.19902 |
| .598 | 4.375 | -.19240 | -.20617 | -.40318 | -.20669 | -.29775 | -.20008 |
| .595 | 6.540 | -.21148 | -.21917 | -.41054 | -.19160 | -.29397 | -.20818 |
| .596 | 8.718 | -.22921 | -.23131 | -.41706 | -.19006 | -.30071 | -.21433 |
| .595 | 10.870 | -.25222 | -.25219 | -.42264 | -.18447 | -.29557 | -.22965 |
| | GRADIENT | .00074 | -.00000 | .00073 | .01385 | .00929 | .00153 |

RUN NO. 14/ 0 RV/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .794 | -10.731 | -.24490 | -.25123 | -.43353 | -.40456 | -.43680 | -.26648 |
| .794 | -8.567 | -.22260 | -.22881 | -.42809 | -.39084 | -.42998 | -.24173 |
| .795 | -6.336 | -.20703 | -.21273 | -.42073 | -.37239 | -.41416 | -.22488 |
| .794 | -4.308 | -.19498 | -.19960 | -.40889 | -.34136 | -.38932 | -.20943 |
| .794 | -2.144 | -.18377 | -.18937 | -.39941 | -.30965 | -.36716 | -.20233 |
| .794 | -.025 | -.17763 | -.19323 | -.39077 | -.25886 | -.31466 | -.20593 |
| .794 | 2.118 | -.18470 | -.19863 | -.39428 | -.22077 | -.28559 | -.20352 |
| .795 | 4.240 | -.19635 | -.19938 | -.39675 | -.21371 | -.29850 | -.19437 |
| .794 | 6.365 | -.21183 | -.21016 | -.40293 | -.20138 | -.29877 | -.20174 |
| .794 | 8.531 | -.23208 | -.23004 | -.41107 | -.18977 | -.29413 | -.21926 |
| .793 | 10.643 | -.25684 | -.25358 | -.41868 | -.18851 | -.29051 | -.24198 |
| | GRADIENT | -.00017 | -.00041 | .00138 | .01612 | .01233 | .00136 |

TABULATED SOURCE DATA, LARC 8FT.-667 (11-41)

(R00103) (29 JAN 74)

LRC 0 TPT 667 IAA1 T1P1S1P201

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 13/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .893 | -10.776 | -.29440 | -.30154 | -.45437 | -.43303 | -.45165 | -.31413 |
| .894 | -8.607 | -.26758 | -.27473 | -.44793 | -.41756 | -.44124 | -.28801 |
| .894 | -6.470 | -.24928 | -.25077 | -.43521 | -.39240 | -.41851 | -.26180 |
| .894 | -4.347 | -.23065 | -.23299 | -.41958 | -.35956 | -.39215 | -.23789 |
| .894 | -2.167 | -.22143 | -.22325 | -.40791 | -.32817 | -.36679 | -.22543 |
| .894 | .025 | -.22365 | -.23958 | -.40611 | -.24630 | -.29446 | -.24539 |
| .893 | 2.153 | -.22267 | -.23222 | -.41327 | -.22629 | -.29692 | -.24009 |
| .893 | 4.349 | -.23074 | -.22852 | -.41221 | -.22669 | -.31942 | -.23001 |
| .893 | 6.545 | -.25087 | -.24669 | -.41727 | -.21526 | -.31493 | -.24770 |
| .893 | 8.634 | -.28033 | -.27494 | -.42922 | -.20729 | -.30821 | -.28025 |
| .894 | 10.859 | -.31367 | -.30764 | -.44011 | -.20696 | -.29934 | -.30518 |
| GRADIENT | | -.00007 | -.00000 | .00044 | .01694 | .00993 | .00005 |

RUN NO. 12/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .980 | -11.017 | -.40834 | -.41262 | -.52340 | -.51770 | -.57364 | -.43047 |
| .981 | -8.780 | -.36585 | -.37006 | -.52728 | -.51660 | -.57774 | -.38836 |
| .981 | -6.596 | -.33729 | -.34284 | -.50975 | -.50469 | -.56356 | -.36388 |
| .980 | -4.396 | -.31524 | -.31869 | -.48947 | -.49043 | -.54310 | -.33894 |
| .980 | -2.212 | -.30907 | -.31638 | -.48113 | -.45865 | -.49474 | -.32808 |
| .979 | -.030 | -.31145 | -.33127 | -.48836 | -.39691 | -.43077 | -.34233 |
| .979 | 2.128 | -.30844 | -.31954 | -.48895 | -.35930 | -.40635 | -.33186 |
| .980 | 4.347 | -.32049 | -.31778 | -.48462 | -.36584 | -.41967 | -.31775 |
| .979 | 6.530 | -.34841 | -.34437 | -.49676 | -.33039 | -.39871 | -.33557 |
| .978 | 8.710 | -.37902 | -.37421 | -.51102 | -.30868 | -.37471 | -.36455 |
| .978 | 10.931 | -.40700 | -.40064 | -.51881 | -.30269 | -.35498 | -.39888 |
| GRADIENT | | -.00046 | -.00006 | .00009 | .01595 | .01534 | .00208 |

RUN NO. 11/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|--------|---------|---------|---------|---------|---------|---------|
| 1.200 | -8.922 | -.34540 | -.34590 | -.41086 | -.42477 | -.48961 | -.35568 |
| 1.201 | -6.681 | -.32423 | -.32585 | -.40509 | -.42154 | -.48524 | -.33820 |
| 1.201 | -4.437 | -.29665 | -.30242 | -.40031 | -.41278 | -.47948 | -.30951 |
| 1.201 | -2.233 | -.28824 | -.29727 | -.39483 | -.40023 | -.47118 | -.29943 |
| 1.201 | -.030 | -.27289 | -.29260 | -.39744 | -.38252 | -.45453 | -.30608 |
| 1.201 | 2.167 | -.27186 | -.27899 | -.39623 | -.35084 | -.41932 | -.28318 |
| 1.201 | 4.376 | -.27774 | -.27453 | -.39837 | -.31958 | -.37556 | -.27143 |
| 1.200 | 6.607 | -.29500 | -.28983 | -.40341 | -.29451 | -.34870 | -.28215 |
| 1.201 | 8.859 | -.31463 | -.30838 | -.41021 | -.29099 | -.34824 | -.29649 |
| GRADIENT | | .00246 | .00336 | .00011 | .01071 | .01179 | .00420 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 0 TPT 667 1A41 T1P1S1P200

(R08104) (29 JAN 74)

REFERENCE DATA

XREF = 2090.0000 SQ.FT.
 YREF = 1290.3000 INCHES
 ZREF = 1290.3000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 26/ 0 R/V/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .599 | -12.002 | -.20379 | -.21410 | -.47496 | -.34658 | -.39013 | -.22066 |
| .600 | -9.504 | -.19559 | -.20755 | -.46185 | -.33514 | -.39102 | -.21871 |
| .601 | -7.305 | -.18724 | -.20031 | -.44398 | -.33245 | -.39696 | -.21608 |
| .599 | -4.972 | -.18137 | -.19631 | -.42077 | -.31306 | -.37415 | -.21211 |
| .599 | -2.787 | -.17795 | -.19451 | -.40828 | -.28264 | -.33287 | -.20782 |
| .599 | -.496 | -.17097 | -.19035 | -.39821 | -.26380 | -.33324 | -.20214 |
| .599 | 1.842 | -.16228 | -.18468 | -.39362 | -.25118 | -.32559 | -.19626 |
| .600 | 4.094 | -.15336 | -.18090 | -.38764 | -.24586 | -.32868 | -.19326 |
| .598 | 6.340 | -.14489 | -.17751 | -.38152 | -.24828 | -.34072 | -.18837 |
| .600 | 8.613 | -.14139 | -.17430 | -.37619 | -.26267 | -.36028 | -.17897 |
| .600 | 10.883 | -.14085 | -.17392 | -.37084 | -.27517 | -.35759 | -.17628 |
| GRADIENT | | .00315 | .00179 | .00346 | .00727 | .00518 | .00217 |

RUN NO. 25/ 0 R/V/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .799 | -11.301 | -.22370 | -.22941 | -.47788 | -.34737 | -.38105 | -.23957 |
| .800 | -9.051 | -.21178 | -.21898 | -.45706 | -.33527 | -.40070 | -.23171 |
| .800 | -6.958 | -.20348 | -.21110 | -.43807 | -.34445 | -.39106 | -.22695 |
| .799 | -4.750 | -.19410 | -.20293 | -.41440 | -.32460 | -.37559 | -.21751 |
| .799 | -2.577 | -.18572 | -.19729 | -.39933 | -.29667 | -.35260 | -.21007 |
| .799 | -.344 | -.17922 | -.19841 | -.39437 | -.25466 | -.30591 | -.21016 |
| .799 | 1.805 | -.17628 | -.20018 | -.38605 | -.23225 | -.28841 | -.21063 |
| .799 | 4.027 | -.17120 | -.19828 | -.38582 | -.23189 | -.29920 | -.20796 |
| .799 | 6.273 | -.16464 | -.19495 | -.38285 | -.24091 | -.31304 | -.20282 |
| .799 | 8.390 | -.16504 | -.19589 | -.38602 | -.26606 | -.33831 | -.20145 |
| .798 | 10.564 | -.16510 | -.19674 | -.39699 | -.28212 | -.32985 | -.20282 |
| GRADIENT | | .00252 | .00029 | .00323 | .01139 | .00971 | .00084 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 TIP131P201

(R08104) (29 JAN 74)

REFERENCE DATA

SHEP = 2090.0000 SQ.FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .5135 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 24/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .899 | -11.633 | -.27048 | -.27500 | -.51119 | -.33257 | -.36556 | -.28935 |
| .901 | -9.351 | -.25715 | -.26336 | -.48812 | -.33283 | -.36534 | -.27126 |
| .899 | -7.147 | -.24624 | -.25026 | -.46411 | -.34060 | -.35413 | -.26528 |
| .899 | -4.947 | -.23818 | -.25065 | -.44202 | -.32129 | -.33274 | -.25745 |
| .900 | -2.650 | -.23245 | -.24638 | -.42275 | -.29494 | -.31425 | -.25295 |
| .900 | -.369 | -.22265 | -.24533 | -.40567 | -.25608 | -.30040 | -.25371 |
| .899 | 1.846 | -.22656 | -.24486 | -.39614 | -.23379 | -.29314 | -.25099 |
| .899 | 4.083 | -.22313 | -.24477 | -.38222 | -.23887 | -.30196 | -.25112 |
| .899 | 6.298 | -.21486 | -.23815 | -.39671 | -.25711 | -.31770 | -.24229 |
| .899 | 8.550 | -.22840 | -.24603 | -.40468 | -.30160 | -.34130 | -.24514 |
| .899 | 10.745 | -.23344 | -.24826 | -.42467 | -.32969 | -.34603 | -.24827 |
| | GRADIENT | .00163 | .00059 | .00572 | .01011 | .02370 | .00065 |

RUN NO. 23/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .980 | -12.000 | -.37370 | -.37846 | -.54692 | -.48279 | -.48835 | -.40594 |
| .980 | -9.612 | -.35928 | -.36389 | -.52279 | -.45016 | -.46117 | -.37747 |
| .981 | -7.309 | -.34335 | -.35242 | -.50369 | -.43730 | -.43891 | -.36747 |
| .980 | -4.966 | -.32239 | -.33725 | -.48383 | -.42733 | -.42818 | -.35046 |
| .980 | -2.781 | -.31174 | -.32975 | -.46910 | -.41157 | -.42378 | -.34109 |
| .980 | -.473 | -.31020 | -.33201 | -.48455 | -.38566 | -.42298 | -.34462 |
| .979 | 1.825 | -.31187 | -.33115 | -.48997 | -.37485 | -.42887 | -.34334 |
| .980 | 4.032 | -.32126 | -.33721 | -.49286 | -.39449 | -.46233 | -.34541 |
| .980 | 6.340 | -.31562 | -.33190 | -.49390 | -.41746 | -.48122 | -.34136 |
| .980 | 8.557 | -.30390 | -.32769 | -.49366 | -.45664 | -.50682 | -.34196 |
| .980 | 10.810 | -.29690 | -.32667 | -.50185 | -.48162 | -.51007 | -.34053 |
| | GRADIENT | .00314 | -.00006 | -.00174 | .00454 | -.00324 | .00034 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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LRC 8 TPT 667 IA41 T1P1S1P2C1

RR00104) (29 JAN 74)

REFERENCE DATA

XREF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 22/ 0 RN/L = 2.10 GRADIENT INTERVAL = -5.00/ 5.00

| INCH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|--------|--------|--------|---------|---------|---------|
| 1.200 | -12.356 | -35787 | -35787 | -44810 | -43293 | -46395 | -37919 |
| 1.201 | -9.982 | -34214 | -34132 | -44495 | -42925 | -46721 | -35447 |
| 1.201 | -7.595 | -32615 | -32490 | -43680 | -40984 | -46430 | -32929 |
| 1.201 | -5.183 | -30367 | -30698 | -42154 | -39459 | -46082 | -29990 |
| 1.200 | -2.934 | -28346 | -29847 | -40783 | -38543 | -44970 | -29870 |
| 1.200 | -.522 | -27460 | -29530 | -39920 | -37445 | -44538 | -30849 |
| 1.200 | 1.809 | -27508 | -29230 | -40061 | -37640 | -45068 | -30952 |
| 1.200 | 4.096 | -26615 | -28463 | -40064 | -39568 | -45936 | -30479 |
| 1.201 | 6.402 | -26045 | -27848 | -38757 | -41150 | -47242 | -29863 |
| 1.201 | 8.632 | -25481 | -27312 | -37132 | -42068 | -47857 | -29145 |
| 1.200 | 10.945 | -25951 | -27317 | -37117 | -43033 | -47676 | -28967 |
| | GRADIENT | .00246 | .00190 | .00087 | -.00136 | -.00145 | -.00084 |



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TABULATED SOURCE DATA, LARC 8FT.-867 (IA-41)

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LRC 8 TPT 667 IA41 T1P1S1F201

(R08105) (29 JAN 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 21/ 0 RNL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .598 | -10.896 | -.23122 | -.24966 | -.43033 | -.37322 | -.43467 | -.23105 |
| .599 | -8.769 | -.21463 | -.22562 | -.43212 | -.36698 | -.43532 | -.22838 |
| .599 | -6.511 | -.20637 | -.21463 | -.43037 | -.35464 | -.42385 | -.21894 |
| .599 | -4.332 | -.21551 | -.22314 | -.41064 | -.32576 | -.37440 | -.22309 |
| .598 | -2.181 | -.21151 | -.21563 | -.40451 | -.30016 | -.35533 | -.21976 |
| .599 | -.006 | -.19754 | -.20330 | -.40064 | -.26764 | -.33700 | -.21612 |
| .599 | 2.171 | -.20159 | -.21592 | -.40223 | -.23715 | -.31635 | -.21484 |
| .598 | 4.335 | -.22222 | -.22943 | -.41083 | -.21471 | -.30360 | -.21715 |
| .600 | 6.486 | -.24198 | -.24243 | -.41651 | -.19527 | -.29809 | -.22406 |
| .599 | 8.760 | -.25755 | -.25428 | -.42210 | -.19244 | -.30308 | -.23349 |
| .598 | 10.891 | -.28259 | -.28159 | -.43216 | -.19180 | -.30017 | -.25562 |
| GRADIENT | -.00016 | -.00041 | -.00041 | .00059 | .01312 | .00831 | .00077 |

RUN NO. 20/ 0 RNL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .800 | -10.751 | -.24641 | -.25287 | -.43650 | -.40818 | -.43962 | -.26590 |
| .801 | -8.573 | -.22792 | -.23470 | -.43283 | -.39546 | -.43218 | -.24569 |
| .800 | -6.365 | -.21559 | -.22105 | -.42521 | -.37372 | -.41511 | -.23181 |
| .800 | -4.309 | -.20932 | -.21335 | -.41682 | -.34814 | -.39259 | -.22179 |
| .801 | -2.124 | -.20568 | -.20769 | -.40762 | -.31392 | -.36957 | -.21407 |
| .800 | -.034 | -.20615 | -.21488 | -.39831 | -.26115 | -.31540 | -.22023 |
| .800 | 2.099 | -.21283 | -.22222 | -.40210 | -.22945 | -.29138 | -.22369 |
| .800 | 4.268 | -.22233 | -.22070 | -.40652 | -.21433 | -.29999 | -.21288 |
| .800 | 6.365 | -.23940 | -.23436 | -.41312 | -.20402 | -.30046 | -.22316 |
| .800 | 8.528 | -.25806 | -.25165 | -.41901 | -.19592 | -.29472 | -.23837 |
| .799 | 10.729 | -.28626 | -.27882 | -.42872 | -.18957 | -.29139 | -.26420 |
| GRADIENT | -.00155 | -.00136 | -.00136 | .00122 | .01646 | .01230 | .00039 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 6 TPT 667 1A41 T1P1S1P20X

(R08105) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 19/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|--------|--------|--------|---------|
| .900 | -10.894 | -29875 | -30457 | -45944 | -43980 | -45539 | -31321 |
| .901 | -8.700 | -27326 | -27908 | -45207 | -42507 | -44435 | -29245 |
| .901 | -6.471 | -25464 | -26011 | -44157 | -39796 | -42143 | -27794 |
| .900 | -4.286 | -24466 | -24919 | -42926 | -36809 | -39848 | -25651 |
| .900 | -2.187 | -23999 | -24121 | -41672 | -33391 | -37163 | -24312 |
| .900 | -.016 | -25644 | -26891 | -41015 | -25564 | -29850 | -27010 |
| .900 | 2.146 | -25471 | -25906 | -42001 | -22987 | -29885 | -26660 |
| .900 | 4.365 | -25655 | -25429 | -42653 | -22739 | -31913 | -25550 |
| .899 | 6.515 | -28001 | -27417 | -43242 | -21582 | -31453 | -27852 |
| .899 | 8.638 | -31075 | -30163 | -44127 | -20841 | -30864 | -31501 |
| .900 | 10.815 | -34746 | -33950 | -45156 | -21075 | -30159 | -35598 |
| | GRADIENT | -.00178 | -.00129 | .00008 | .01778 | .01065 | -.00099 |

RUN NO. 17/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|--------|--------|--------|
| .980 | -11.020 | -40235 | -40684 | -52451 | -51775 | -57410 | -42327 |
| .981 | -8.771 | -36403 | -37014 | -52522 | -51493 | -57500 | -39255 |
| .978 | -6.617 | -33467 | -33777 | -50815 | -49911 | -55572 | -35547 |
| .979 | -4.375 | -31971 | -32223 | -49258 | -48834 | -53973 | -34036 |
| .979 | -2.224 | -33521 | -34372 | -49145 | -44900 | -47066 | -34929 |
| .979 | -.029 | -33947 | -35397 | -49062 | -39605 | -42879 | -36161 |
| .978 | 2.118 | -34177 | -34390 | -49803 | -35408 | -39961 | -35177 |
| .978 | 4.337 | -34315 | -33856 | -49557 | -35646 | -41187 | -35536 |
| .980 | 6.541 | -37669 | -37004 | -50820 | -32710 | -39574 | -36576 |
| .978 | 8.742 | -40624 | -39821 | -51914 | -31011 | -37590 | -39806 |
| .979 | 10.932 | -43516 | -43079 | -52354 | -30667 | -35804 | -44939 |
| | GRADIENT | -.00245 | -.00150 | -.00058 | .01642 | .01495 | .00036 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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(R06105) (29 JAN 74)

LEC 0 TPT 667 IA41 TIP1SIP201

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

ALPHA = .000

RUDDER = -20.000

RUN NO. 18/ 0 RVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|--------|--------|---------|--------|--------|--------|
| 1.201 | -0.934 | -34706 | -34754 | -41101 | -42371 | -49053 | -35524 |
| 1.201 | -6.636 | -32374 | -32555 | -40710 | -42363 | -48694 | -33456 |
| 1.201 | -4.439 | -30240 | -30879 | -40250 | -41566 | -48110 | -31654 |
| 1.201 | -2.163 | -29358 | -30286 | -39789 | -40527 | -47461 | -30643 |
| 1.201 | -.032 | -28573 | -30118 | -39912 | -38692 | -45786 | -30767 |
| 1.201 | 2.174 | -28641 | -28724 | -39941 | -35129 | -41919 | -28518 |
| 1.201 | 4.399 | -28837 | -28497 | -40315 | -33145 | -39065 | -27981 |
| 1.201 | 6.572 | -30483 | -29967 | -40833 | -29399 | -34867 | -29102 |
| 1.201 | 8.912 | -32454 | -31774 | -41524 | -29325 | -34977 | -30852 |
| 1.200 | 11.164 | -34247 | -33754 | -42512 | -28970 | -34434 | -33249 |
| 1.201 | GRADIENT | .00160 | .00287 | -.00013 | .01011 | .01073 | .00431 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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LRC 8 TPT 667 1A41 74P631P201

(R08106) (29 JAN 74)

REFERENCE DATA

SREF = 2695.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 31/ 0 RN/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .799 | -11.733 | -.20240 | -.21311 | -.47371 | -.34817 | -.39190 | -.22110 |
| .599 | -9.371 | -.19457 | -.20717 | -.46232 | -.33581 | -.39320 | -.21990 |
| .599 | -7.172 | -.18799 | -.20130 | -.44380 | -.33132 | -.39364 | -.21762 |
| .601 | -4.856 | -.18163 | -.19649 | -.41934 | -.31008 | -.37118 | -.21136 |
| .599 | -2.615 | -.17675 | -.19295 | -.40722 | -.27787 | -.34972 | -.20579 |
| .599 | -.378 | -.16997 | -.18956 | -.40065 | -.26488 | -.33503 | -.20124 |
| .599 | 1.945 | -.16159 | -.18381 | -.39265 | -.24975 | -.32230 | -.19569 |
| .600 | 4.318 | -.15319 | -.18088 | -.38795 | -.24516 | -.32871 | -.19235 |
| .599 | 6.458 | -.14564 | -.17823 | -.38139 | -.24893 | -.34237 | -.18940 |
| .600 | 8.707 | -.14117 | -.17586 | -.37531 | -.26236 | -.36094 | -.17824 |
| .601 | 10.968 | -.14181 | -.17564 | -.37103 | -.27697 | -.35993 | -.17533 |
| | GRADIENT | .00315 | .00176 | .00336 | .00687 | .02487 | .00210 |

RUN NO. 30/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .799 | -11.433 | -.22366 | -.22887 | -.47809 | -.34713 | -.38043 | -.23941 |
| .800 | -9.037 | -.21111 | -.21858 | -.45323 | -.35358 | -.39937 | -.23092 |
| .799 | -6.790 | -.20204 | -.21048 | -.43253 | -.33941 | -.38537 | -.22390 |
| .799 | -4.696 | -.19353 | -.20212 | -.41099 | -.31742 | -.36907 | -.21580 |
| .800 | -2.489 | -.18503 | -.19659 | -.39634 | -.28631 | -.34266 | -.20818 |
| .799 | -.256 | -.17832 | -.19824 | -.39401 | -.24625 | -.29803 | -.20882 |
| .799 | 1.920 | -.17674 | -.20038 | -.38594 | -.22886 | -.28539 | -.21200 |
| .799 | 4.195 | -.17140 | -.19849 | -.38732 | -.23160 | -.30166 | -.20778 |
| .799 | 6.359 | -.16481 | -.19590 | -.38294 | -.24110 | -.31311 | -.20313 |
| .799 | 8.511 | -.16432 | -.19431 | -.38415 | -.26392 | -.33439 | -.19973 |
| .799 | 10.676 | -.16573 | -.19683 | -.39793 | -.28501 | -.32925 | -.20200 |
| | GRADIENT | .00237 | .00316 | .00260 | .01032 | .02864 | .00055 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

(R08106) (29 JAN 74)

LRC 6 TPT 667 1A41 TAPES12C01

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

REF = 2090.0000 94.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 29/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|--------|--------|--------|--------|--------|--------|
| .900 | -11.946 | -26860 | -27236 | -50619 | -35129 | -36436 | -28332 |
| .901 | -9.239 | -25689 | -26311 | -48805 | -35440 | -36660 | -27202 |
| .902 | -6.963 | -24615 | -25689 | -45987 | -33732 | -35136 | -26333 |
| .903 | -4.686 | -23817 | -25063 | -43551 | -31329 | -32702 | -25662 |
| .904 | -2.446 | -23399 | -24855 | -41744 | -28424 | -30875 | -25455 |
| .905 | -.246 | -22845 | -24539 | -40704 | -25007 | -29583 | -25299 |
| .906 | 1.932 | -22732 | -24518 | -38281 | -23096 | -29147 | -25005 |
| .907 | 4.208 | -22430 | -24699 | -36249 | -23928 | -30131 | -25209 |
| .908 | 6.483 | -21745 | -23936 | -34952 | -26457 | -32079 | -24017 |
| .909 | 8.598 | -23244 | -25000 | -40536 | -29811 | -33583 | -24876 |
| .910 | 10.783 | -23628 | -24946 | -42436 | -33244 | -34847 | -24754 |
| GRADIENT | | .00155 | .00048 | .00634 | .00906 | .00309 | .00061 |

RUN NO. 28/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|--------|---------|---------|
| .978 | -11.966 | -36833 | -37344 | -54287 | -47405 | -47896 | -39989 |
| .979 | -9.547 | -35855 | -36382 | -52355 | -45544 | -46202 | -37961 |
| .980 | -7.171 | -33926 | -34967 | -50472 | -43817 | -43738 | -36693 |
| .981 | -4.907 | -32151 | -33622 | -48150 | -42508 | -42412 | -34995 |
| .982 | -2.687 | -30874 | -32808 | -46765 | -40749 | -41618 | -34079 |
| .983 | -.376 | -30664 | -32790 | -47495 | -38157 | -42063 | -33958 |
| .984 | 1.927 | -31190 | -33180 | -48252 | -37422 | -42805 | -34387 |
| .985 | 4.165 | -32108 | -33831 | -48799 | -38962 | -45463 | -34350 |
| .986 | 6.401 | -31332 | -32987 | -49010 | -42074 | -48577 | -33966 |
| .987 | 8.691 | -29821 | -32040 | -48909 | -46023 | -50664 | -33272 |
| .988 | 10.904 | -28384 | -31789 | -49854 | -48504 | -51137 | -33022 |
| GRADIENT | | -.00011 | -.00035 | -.00123 | .00458 | -.00321 | -.00001 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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(080106) (29 JAN 74)

LRC 8 TPT 667 1A41 74P6S1P201

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 27/ 0 RNL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|--------|--------|--------|---------|---------|---------|
| 1.201 | -12.416 | -35820 | -35784 | -44793 | -43376 | -46761 | -37903 |
| 1.201 | -9.953 | -34438 | -34518 | -44644 | -42992 | -46907 | -36404 |
| 1.201 | -7.395 | -32800 | -32708 | -43915 | -41484 | -46812 | -33463 |
| 1.201 | -5.080 | -30665 | -30903 | -42520 | -39908 | -46227 | -30551 |
| 1.201 | -2.757 | -28628 | -30067 | -41034 | -38842 | -45183 | -30062 |
| 1.201 | -4.57 | -28051 | -29982 | -40293 | -38138 | -45186 | -31033 |
| 1.201 | 1.855 | -28020 | -29329 | -40098 | -38179 | -45522 | -31111 |
| 1.201 | 4.185 | -27208 | -28914 | -40067 | -40216 | -46332 | -30862 |
| 1.201 | 6.482 | -26663 | -28417 | -38705 | -41540 | -47568 | -30584 |
| 1.201 | 8.685 | -25581 | -27335 | -36899 | -42274 | -47978 | -29066 |
| 1.201 | 11.009 | -25715 | -27376 | -37193 | -43674 | -47761 | -28246 |
| 1.201 | GRADIENT | .05212 | .00168 | .00134 | -.00181 | -.00166 | -.00107 |



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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

(R99137) (29 JAN 74)

LRC 8 TPT 667 7A41 T4P6S1P2U1

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2890.5000 SQ.FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 36/ 0 RN/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .601 | -10.922 | -.23358 | -.25067 | -.43043 | -.37495 | -.43438 | -.25305 |
| .601 | -8.745 | -.20917 | -.22153 | -.43539 | -.36924 | -.43766 | -.22930 |
| .600 | -6.566 | -.19444 | -.20402 | -.42958 | -.35412 | -.42617 | -.21337 |
| .600 | -4.384 | -.19661 | -.20824 | -.41059 | -.32583 | -.37482 | -.21507 |
| .600 | -2.218 | -.18558 | -.19465 | -.40320 | -.30359 | -.36147 | -.20843 |
| .600 | -.030 | -.17253 | -.18683 | -.40050 | -.26984 | -.33785 | -.20202 |
| .600 | 2.132 | -.17568 | -.19561 | -.39947 | -.23466 | -.31351 | -.20036 |
| .600 | 4.292 | -.19795 | -.20615 | -.40498 | -.20980 | -.29889 | -.20111 |
| .600 | 6.485 | -.21190 | -.22022 | -.41381 | -.19360 | -.29398 | -.20958 |
| .601 | 8.671 | -.22655 | -.22843 | -.41522 | -.18605 | -.29641 | -.21036 |
| .600 | 10.884 | -.25133 | -.25143 | -.42418 | -.18516 | -.29458 | -.22945 |
| | GRADIENT | .00096 | .00015 | .00074 | .01387 | .00921 | .00166 |

RUN NO. 35/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .800 | -10.720 | -.24632 | -.25252 | -.43441 | -.40652 | -.43636 | -.26793 |
| .800 | -8.587 | -.22484 | -.23246 | -.43150 | -.39585 | -.43107 | -.24661 |
| .801 | -6.449 | -.20846 | -.21353 | -.42104 | -.37092 | -.41194 | -.22458 |
| .800 | -4.300 | -.19702 | -.20231 | -.41213 | -.34650 | -.39094 | -.21237 |
| .800 | -2.174 | -.18678 | -.19225 | -.40189 | -.31265 | -.36835 | -.20820 |
| .800 | -.024 | -.18031 | -.19677 | -.39444 | -.26405 | -.31500 | -.20917 |
| .800 | 2.105 | -.18565 | -.20044 | -.39658 | -.22220 | -.28634 | -.20534 |
| .799 | 4.230 | -.19714 | -.20037 | -.39851 | -.21496 | -.29832 | -.19701 |
| .800 | 6.376 | -.21192 | -.21073 | -.40370 | -.20318 | -.29850 | -.20221 |
| .800 | 8.517 | -.23163 | -.22905 | -.41086 | -.18956 | -.29302 | -.21870 |
| .799 | 10.667 | -.25855 | -.25472 | -.41969 | -.18854 | -.29136 | -.24484 |
| | GRADIENT | .00004 | -.00020 | .00153 | .01657 | .01253 | .00148 |

LRC 8 TPT 667 1A41 T4P6S1P201

(R28107) (29 JAN 74)

REFERENCE DATA

SHEF = 2890.0000 Sq.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 34/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .900 | -10.668 | -.29774 | -.30493 | -.45961 | -.43596 | -.45378 | -.31768 |
| .900 | -8.678 | -.27214 | -.27889 | -.45254 | -.42193 | -.44229 | -.29347 |
| .900 | -6.513 | -.24971 | -.25574 | -.43938 | -.39890 | -.42169 | -.26898 |
| .900 | -4.356 | -.23272 | -.23633 | -.42218 | -.36572 | -.39493 | -.24395 |
| .900 | -2.198 | -.22507 | -.22724 | -.41017 | -.35079 | -.36589 | -.25012 |
| .900 | -.029 | -.22876 | -.24444 | -.40926 | -.25633 | -.29439 | -.25002 |
| .899 | 2.121 | -.22679 | -.23685 | -.41554 | -.22990 | -.29886 | -.24697 |
| .900 | 4.282 | -.23437 | -.23182 | -.41594 | -.23009 | -.32276 | -.23427 |
| .899 | 6.443 | -.25300 | -.24833 | -.42029 | -.21989 | -.31865 | -.24982 |
| .899 | 8.613 | -.28176 | -.27656 | -.43243 | -.21053 | -.31149 | -.28188 |
| .899 | 10.795 | -.31424 | -.30846 | -.44346 | -.21040 | -.30524 | -.30648 |
| | GRADIENT | -.00023 | -.00001 | .00033 | .01724 | .00970 | .00011 |

RUN NO. 33/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .980 | -10.986 | -.40790 | -.41219 | -.32248 | -.51282 | -.56699 | -.43192 |
| .980 | -8.792 | -.36511 | -.37141 | -.32218 | -.50899 | -.56520 | -.39473 |
| .980 | -6.589 | -.33217 | -.33677 | -.30771 | -.50013 | -.55603 | -.35680 |
| .981 | -4.412 | -.31197 | -.31464 | -.28671 | -.48642 | -.53687 | -.33406 |
| .980 | -2.212 | -.30620 | -.31377 | -.27696 | -.45406 | -.48436 | -.32569 |
| .980 | -.030 | -.30895 | -.32755 | -.28363 | -.40551 | -.43604 | -.33862 |
| .979 | 2.146 | -.30701 | -.31917 | -.28510 | -.36536 | -.41081 | -.33296 |
| .979 | 4.319 | -.31410 | -.31190 | -.28032 | -.36506 | -.41693 | -.31007 |
| .980 | 6.520 | -.34576 | -.34092 | -.29464 | -.33722 | -.40211 | -.33195 |
| .980 | 8.721 | -.37785 | -.37327 | -.31180 | -.31320 | -.38216 | -.36364 |
| .980 | 10.927 | -.40612 | -.40195 | -.32169 | -.31142 | -.36337 | -.40104 |
| | GRADIENT | -.00023 | .00004 | .00020 | .01529 | .01438 | .00186 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

LRC 0 TPT 667 1A41 T4P6S1P2Q1 (R00107) (29 JAN 74)

REFERENCE DATA

XREF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0100 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 32/0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|--------|--------|--------|--------|--------|--------|
| 1.200 | -8.924 | -34801 | -34829 | -41404 | -42795 | -49299 | -35788 |
| 1.201 | -6.687 | -32038 | -32042 | -40810 | -42690 | -48952 | -32730 |
| 1.201 | -4.445 | -29941 | -30422 | -40307 | -41789 | -48389 | -31167 |
| 1.200 | -2.230 | -28890 | -29791 | -39684 | -39933 | -47118 | -29935 |
| 1.200 | -.042 | -27468 | -29326 | -40035 | -38523 | -45706 | -30747 |
| 1.201 | 2.175 | -27458 | -28495 | -40026 | -35902 | -42960 | -29224 |
| 1.200 | 4.361 | -27844 | -27613 | -40099 | -33414 | -39450 | -27468 |
| 1.200 | 6.576 | -29701 | -29217 | -40691 | -29782 | -35052 | -28541 |
| 1.200 | 8.845 | -32043 | -31535 | -41761 | -29125 | -34866 | -30691 |
| 1.199 | 9.974 | -33095 | -32640 | -42228 | -28752 | -34638 | -31923 |
| | GRADIENT | .00256 | .00314 | .00003 | .00944 | .01001 | .00368 |

LRC 0 TPT 667 1A41 T2P4S1P201

(R00108) (29 JAN 74)

REFERENCE DATA

SHEF = 2000.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 41/ 0 RNVL = 3.10 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .599 | -10.937 | -.23247 | -.24869 | -.43117 | -.37494 | -.43706 | -.25356 |
| .600 | -8.775 | -.20974 | -.22156 | -.43423 | -.36825 | -.43784 | -.22953 |
| .599 | -6.572 | -.19482 | -.20403 | -.42865 | -.35385 | -.42658 | -.21300 |
| .600 | -4.426 | -.19076 | -.20155 | -.41128 | -.32674 | -.38506 | -.21068 |
| .600 | -2.216 | -.18153 | -.19076 | -.40531 | -.30372 | -.36759 | -.20587 |
| .599 | -.053 | -.17196 | -.18831 | -.39969 | -.27046 | -.34172 | -.20075 |
| .599 | 2.140 | -.17516 | -.19495 | -.39797 | -.23410 | -.31546 | -.19932 |
| .599 | 4.297 | -.19168 | -.20615 | -.40596 | -.20981 | -.30048 | -.19992 |
| .599 | 6.488 | -.21076 | -.21891 | -.40983 | -.19285 | -.29506 | -.20709 |
| .600 | 8.682 | -.22693 | -.22901 | -.41482 | -.18761 | -.29804 | -.21066 |
| .600 | 10.867 | -.25100 | -.25129 | -.42273 | -.18386 | -.29483 | -.22833 |
| GRADIENT | | .00021 | -.00261 | .00101 | .01392 | .01015 | .00129 |

RUN NO. 40/ 0 RNVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .799 | -10.739 | -.24636 | -.25283 | -.43288 | -.40599 | -.43612 | -.26746 |
| .800 | -8.595 | -.22415 | -.23023 | -.42781 | -.39041 | -.42787 | -.24257 |
| .800 | -6.439 | -.20805 | -.21391 | -.42001 | -.37133 | -.41348 | -.22600 |
| .799 | -4.312 | -.19685 | -.20213 | -.40997 | -.34613 | -.39161 | -.21244 |
| .799 | -2.166 | -.18638 | -.19186 | -.40036 | -.31286 | -.36913 | -.20502 |
| .799 | -.045 | -.17996 | -.19743 | -.39266 | -.25594 | -.30702 | -.20877 |
| .799 | 2.089 | -.18643 | -.20044 | -.39532 | -.21966 | -.28620 | -.20430 |
| .800 | 4.234 | -.19655 | -.20029 | -.39654 | -.21359 | -.29976 | -.19408 |
| .799 | 6.358 | -.21261 | -.21244 | -.40323 | -.20151 | -.29884 | -.20362 |
| .800 | 8.493 | -.23221 | -.23013 | -.40964 | -.18831 | -.29307 | -.22001 |
| .799 | 10.674 | -.25978 | -.25670 | -.41943 | -.18762 | -.28972 | -.24575 |
| GRADIENT | | .00002 | -.00223 | .00149 | .01678 | .01248 | .00176 |



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TABULATED SOURCE DATA, 1 ARC 8 FT. -667 (1A-41)

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LRC 8 TPT 667 1A41 T2P4S1P201

(000100) (29 JAN 74)

REFERENCE DATA

SEEF = 2690.0000 SQ. FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0195 SCALE

ALPHA = .000 RUDDER = .000

PARAMETRIC DATA

RUN NO. 39/0 RNL = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .901 | -10.891 | -.30008 | -.30765 | -.45228 | -.43849 | -.45425 | -.31898 |
| .900 | -8.696 | -.27207 | -.27813 | -.45126 | -.41910 | -.44101 | -.28952 |
| .899 | -6.547 | -.24900 | -.25437 | -.43833 | -.39508 | -.41958 | -.26513 |
| .898 | -4.386 | -.23271 | -.23656 | -.42184 | -.36541 | -.39660 | -.24349 |
| .897 | -2.212 | -.22520 | -.22738 | -.40988 | -.33504 | -.36963 | -.23047 |
| .896 | -.048 | -.22921 | -.24551 | -.40622 | -.24624 | -.29109 | -.25185 |
| .895 | 2.102 | -.22605 | -.23638 | -.41515 | -.22985 | -.30077 | -.24422 |
| .894 | 4.273 | -.23409 | -.23179 | -.41484 | -.22981 | -.32376 | -.23306 |
| .893 | 6.427 | -.25331 | -.24935 | -.41528 | -.21721 | -.31650 | -.25055 |
| .892 | 8.612 | -.26183 | -.27776 | -.43049 | -.20697 | -.30905 | -.28374 |
| .891 | 10.792 | -.31592 | -.31078 | -.44398 | -.20818 | -.30369 | -.30766 |
| .890 | GRADIENT | -.50017 | .00002 | .00041 | .01749 | .00992 | .00033 |

RUN NO. 38/0 RNL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .980 | -11.019 | -.40766 | -.41213 | -.52220 | -.51256 | -.56812 | -.42826 |
| .980 | -8.818 | -.36661 | -.37101 | -.52815 | -.51225 | -.57065 | -.38870 |
| .979 | -6.599 | -.33035 | -.33415 | -.50649 | -.49435 | -.54874 | -.35189 |
| .980 | -4.421 | -.31168 | -.31455 | -.48746 | -.48717 | -.53323 | -.33292 |
| .980 | -2.230 | -.30711 | -.31446 | -.47626 | -.45813 | -.48429 | -.32470 |
| .979 | -.072 | -.30773 | -.32845 | -.48124 | -.39085 | -.42457 | -.34076 |
| .979 | 2.118 | -.30686 | -.31630 | -.47396 | -.37651 | -.42960 | -.32988 |
| .979 | 4.307 | -.31682 | -.31438 | -.47746 | -.37751 | -.42935 | -.31334 |
| .979 | 6.493 | -.34226 | -.33811 | -.49126 | -.34583 | -.40905 | -.32890 |
| .979 | 8.691 | -.37270 | -.36737 | -.50913 | -.31718 | -.39012 | -.35604 |
| .977 | 10.892 | -.40010 | -.39531 | -.51752 | -.31536 | -.36604 | -.39439 |
| .977 | GRADIENT | -.00046 | -.00007 | .00102 | .01379 | .01203 | .00156 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-61)

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LRC 8 TPT 667 1A41 T2P431P20C

(R08106) (29 JAN 74)

REFERENCE DATA

REF = 2695.0000 SQ.FT. XREF = 976.0000 INCHES
 REF = 1295.3000 INCHES YREF = .0000 INCHES
 REF = 1295.3000 INCHES ZREF = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 37/0 RNVL = 2.12 GRADIENT INTERVAL = -5.00/ 5.00

| WICH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|--------|--------|--------|--------|--------|--------|
| 1.201 | -8.925 | -35435 | -35469 | -41838 | -43319 | -49810 | -36407 |
| 1.202 | -6.692 | -32753 | -32872 | -41319 | -43307 | -49591 | -33904 |
| 1.203 | -4.474 | -30782 | -31247 | -40772 | -42904 | -49235 | -32117 |
| 1.203 | -2.292 | -29778 | -30571 | -39862 | -41470 | -48388 | -30767 |
| 1.203 | -.039 | -28382 | -30074 | -40031 | -39573 | -46772 | -31235 |
| 1.203 | 2.145 | -28286 | -28777 | -39993 | -38946 | -43747 | -29030 |
| 1.203 | 4.366 | -28672 | -28426 | -40569 | -33901 | -40020 | -28061 |
| 1.202 | 6.994 | -30486 | -30043 | -41274 | -30636 | -36019 | -29439 |
| 1.201 | 8.833 | -32467 | -31988 | -42265 | -30050 | -35940 | -30980 |
| 1.201 | 10.006 | -33573 | -33147 | -42679 | -29315 | -35566 | -32320 |
| | GRADIENT | .00259 | .00337 | .00013 | .01020 | .01045 | .00446 |

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

(R08159) (29 JAN 74)

LRC 8 TPT 667 1A41 T2P4S1P201

PAPAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2895.0000 SQ.FT. DRIP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YREF = .0000 INCHES
 BREF = 1290.3000 INCHES ZREF = 400.0000 INCHES
 SCALE = .0100 SCALE

RUN NO. 46/ 0 FNL = 3.10 GRADIENT INTERVAL = -5.00/ 5.00

| WICH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .600 | -11.804 | -.20395 | -.21393 | -.47391 | -.34691 | -.38966 | -.21982 |
| .601 | -9.588 | -.19243 | -.20705 | -.46227 | -.33672 | -.39236 | -.21831 |
| .602 | -7.373 | -.18721 | -.20218 | -.44390 | -.33331 | -.39614 | -.21646 |
| .603 | -4.999 | -.18105 | -.19470 | -.41822 | -.31033 | -.37459 | -.20962 |
| .604 | -2.769 | -.17324 | -.18147 | -.40548 | -.28594 | -.35591 | -.20523 |
| .605 | -.501 | -.16563 | -.16888 | -.39384 | -.26559 | -.33788 | -.19961 |
| .606 | 1.743 | -.16185 | -.16406 | -.38283 | -.25201 | -.32543 | -.19522 |
| .607 | 4.517 | -.15321 | -.16257 | -.36749 | -.24497 | -.32031 | -.19243 |
| .608 | 6.332 | -.14555 | -.17753 | -.34193 | -.24774 | -.31976 | -.18773 |
| .609 | 8.591 | -.14251 | -.17611 | -.31733 | -.25983 | -.35415 | -.18514 |
| .610 | 10.870 | -.14153 | -.17455 | -.37094 | -.27563 | -.35759 | -.17550 |
| GRADIENT | | .02357 | .00155 | .00342 | .00706 | .00545 | .00196 |

RUN NO. 45/ 0 FNL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| WICH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| .799 | -11.408 | -.22397 | -.22903 | -.47863 | -.34717 | -.36123 | -.24011 |
| .798 | -9.177 | -.21182 | -.21839 | -.45701 | -.35576 | -.40195 | -.23209 |
| .797 | -6.948 | -.20324 | -.21125 | -.43507 | -.34060 | -.38812 | -.22546 |
| .796 | -4.739 | -.19417 | -.20286 | -.41244 | -.32037 | -.37072 | -.21655 |
| .795 | -2.541 | -.18456 | -.19534 | -.39706 | -.29106 | -.34888 | -.20944 |
| .794 | -.351 | -.18050 | -.19000 | -.39300 | -.24953 | -.30054 | -.20094 |
| .793 | 1.833 | -.17737 | -.20226 | -.38670 | -.23101 | -.28801 | -.21034 |
| .792 | 4.513 | -.17073 | -.19599 | -.38625 | -.22590 | -.29871 | -.21011 |
| .791 | 6.239 | -.16542 | -.19585 | -.38364 | -.24443 | -.31579 | -.20364 |
| .790 | 8.435 | -.16526 | -.19336 | -.38594 | -.26332 | -.33255 | -.20002 |
| .789 | 10.597 | -.16666 | -.19810 | -.39761 | -.28053 | -.35314 | -.20380 |
| GRADIENT | | .00246 | .00018 | .00287 | .01106 | .00937 | .00050 |

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

(R08109) (29 JAN 74)

LRC 8 TPT 667 1A41 T2P4S1P201

REFERENCE DATA

SREF = 2695.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0135 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 44/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .901 | -11.669 | -.27056 | -.27460 | -.50935 | -.35004 | -.36355 | -.28760 |
| .900 | -9.308 | -.25604 | -.26307 | -.48727 | -.35245 | -.36464 | -.27045 |
| .900 | -7.122 | -.24522 | -.25585 | -.49960 | -.33356 | -.34940 | -.26165 |
| .900 | -4.858 | -.23957 | -.25136 | -.43905 | -.31538 | -.32868 | -.25741 |
| .900 | -2.600 | -.23241 | -.24576 | -.41930 | -.29069 | -.31347 | -.25202 |
| .899 | -.374 | -.22957 | -.24660 | -.40877 | -.25104 | -.29567 | -.25422 |
| .899 | 1.864 | -.22818 | -.24659 | -.38307 | -.23146 | -.29293 | -.25150 |
| .899 | 4.069 | -.22430 | -.24551 | -.38383 | -.23761 | -.30052 | -.25133 |
| .900 | 6.285 | -.21372 | -.23691 | -.39406 | -.26233 | -.32051 | -.23089 |
| .900 | 8.532 | -.22999 | -.24633 | -.40645 | -.29173 | -.33436 | -.24581 |
| .900 | 10.729 | -.23724 | -.25163 | -.42130 | -.32417 | -.34055 | -.24861 |
| | GRADIENT | .00151 | .00249 | .00658 | .00962 | .00345 | .00057 |

RUN NO. 43/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .978 | -11.991 | -.36813 | -.37397 | -.54124 | -.46677 | -.47532 | -.40236 |
| .980 | -9.657 | -.36239 | -.36811 | -.52535 | -.45759 | -.46692 | -.38352 |
| .981 | -7.331 | -.35963 | -.34952 | -.50425 | -.43740 | -.43680 | -.36640 |
| .981 | -5.016 | -.32136 | -.33636 | -.48470 | -.42659 | -.42628 | -.35013 |
| .980 | -2.731 | -.30998 | -.32979 | -.46998 | -.40229 | -.41554 | -.34170 |
| .979 | -.464 | -.30364 | -.32506 | -.47393 | -.37731 | -.41422 | -.33991 |
| .980 | 1.807 | -.31045 | -.33110 | -.48047 | -.37394 | -.43244 | -.34426 |
| .980 | 4.032 | -.32457 | -.34183 | -.48899 | -.39888 | -.46818 | -.33288 |
| .979 | 6.301 | -.31816 | -.33451 | -.49314 | -.42555 | -.49107 | -.34476 |
| .979 | 8.570 | -.30171 | -.32399 | -.49762 | -.45766 | -.50591 | -.33697 |
| .979 | 10.825 | -.28702 | -.32086 | -.49931 | -.49548 | -.52361 | -.33489 |
| | GRADIENT | -.00223 | -.00186 | -.00282 | .00062 | -.00779 | -.00168 |

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

IR08109) (29 JAN 74)

LRC 0 TPT 667 1A41 T2P4S1P201

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 42/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|---------|---------|---------|---------|---------|---------|
| 1.201 | -11.185 | -.35040 | -.34899 | -.45026 | -.43619 | -.47485 | -.36733 |
| 1.201 | -9.995 | -.34213 | -.34104 | -.45001 | -.43050 | -.47387 | -.35411 |
| 1.201 | -7.586 | -.32606 | -.32435 | -.44287 | -.41865 | -.47455 | -.32809 |
| 1.201 | -5.222 | -.30764 | -.30846 | -.42902 | -.40319 | -.47045 | -.29932 |
| 1.201 | -2.858 | -.29052 | -.30314 | -.41339 | -.39139 | -.45593 | -.30641 |
| 1.201 | -.537 | -.28558 | -.30358 | -.40348 | -.38602 | -.45949 | -.31451 |
| 1.201 | 1.791 | -.29213 | -.30471 | -.40256 | -.38569 | -.46061 | -.31692 |
| 1.201 | 4.077 | -.28270 | -.29710 | -.40121 | -.41331 | -.47041 | -.31533 |
| 1.201 | 5.382 | -.27504 | -.29068 | -.39121 | -.42055 | -.47904 | -.31038 |
| 1.200 | 8.683 | -.26659 | -.28220 | -.37353 | -.42701 | -.48725 | -.30173 |
| 1.201 | 10.954 | -.26417 | -.28110 | -.38007 | -.44081 | -.48321 | -.29899 |
| | GRADIENT | .00073 | .00073 | .00164 | -.00282 | -.00192 | -.00126 |

LRC 8 TPT 667 IA41 TIP104

(R00110) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 490.0000 INCHES
 SCALE = .0155 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 51/ 0 RM/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .598 | -11.026 | -.18529 | -.19124 | -.41403 | -.01134 | -.01115 | -.19854 |
| .600 | -8.060 | -.18164 | -.18368 | -.39179 | -.01124 | .00000 | -.18893 |
| .600 | -6.621 | -.17667 | -.18042 | -.36659 | -.01123 | .00000 | -.18693 |
| .600 | -4.372 | -.17017 | -.17385 | -.33975 | -.01123 | .00000 | -.18555 |
| .600 | -2.322 | -.16130 | -.16570 | -.31841 | -.01122 | .00000 | -.18086 |
| .600 | -.168 | -.14881 | -.15593 | -.29708 | -.01120 | .00000 | -.17166 |
| .601 | 1.975 | -.13562 | -.14394 | -.27744 | -.01119 | .00000 | -.15699 |
| .600 | 4.035 | -.12770 | -.13597 | -.26082 | -.01120 | .00000 | -.14597 |
| .600 | 6.215 | -.12708 | -.13172 | -.24166 | -.01160 | .00000 | -.14078 |
| .599 | 8.463 | -.12697 | -.12990 | -.22815 | -.01130 | -.01111 | -.13418 |
| .599 | 10.527 | -.12660 | -.12973 | -.21675 | -.01127 | .00000 | -.13035 |
| | GRADIENT | .00524 | .00462 | .00942 | .00000 | .00000 | .00489 |

RUN NO. 50/ 0 RM/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .800 | -10.700 | -.19924 | -.20810 | -.42415 | -.00254 | .00000 | -.22876 |
| .800 | -8.579 | -.18700 | -.19660 | -.39868 | -.00280 | .00000 | -.21906 |
| .799 | -6.524 | -.17560 | -.18412 | -.36515 | -.00253 | .00000 | -.20430 |
| .800 | -4.306 | -.16638 | -.17375 | -.34399 | -.00255 | .00000 | -.19288 |
| .799 | -2.277 | -.15755 | -.16511 | -.32428 | -.00251 | .00000 | -.18094 |
| .800 | -.105 | -.14639 | -.15490 | -.30009 | -.00230 | .00000 | -.16534 |
| .800 | 1.970 | -.13690 | -.14610 | -.28309 | -.00281 | .00000 | -.15442 |
| .800 | 4.078 | -.13308 | -.14132 | -.27032 | -.00254 | .00000 | -.14759 |
| .799 | 6.171 | -.13450 | -.14039 | -.26329 | -.00278 | -.00253 | -.14564 |
| .799 | 8.321 | -.13576 | -.14111 | -.26370 | -.00279 | .00000 | -.14610 |
| .799 | 10.413 | -.13866 | -.14473 | -.27064 | -.00253 | .00000 | -.15127 |
| | GRADIENT | .00415 | .00399 | .00895 | -.00001 | .00000 | .00557 |

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TABULATED SOURCE DATA, LARC 9FT.-667 (1A-41)

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LRC 6 TPT 667 1A41 T1P101

(RQ8110) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUCRER = .000

RUN NO. 49/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .899 | -10.882 | -.23778 | -.23926 | -.40653 | -.00329 | .00000 | -.24690 |
| .901 | -8.741 | -.22079 | -.22640 | -.38473 | -.00328 | .00000 | -.23651 |
| .900 | -6.543 | -.20752 | -.21497 | -.36393 | -.00351 | .00000 | -.22715 |
| .900 | -4.397 | -.19394 | -.20119 | -.34507 | -.00351 | .00000 | -.21338 |
| .900 | -2.246 | -.18036 | -.18831 | -.32755 | -.00329 | .00000 | -.19803 |
| .900 | -.127 | -.16587 | -.17476 | -.30872 | -.00351 | .00000 | -.17681 |
| .900 | 1.961 | -.15983 | -.16973 | -.30053 | -.00374 | -.00507 | -.16840 |
| .899 | 4.211 | -.15446 | -.16606 | -.29476 | -.00329 | .00000 | -.15974 |
| .900 | 6.214 | -.15747 | -.16809 | -.28602 | -.00374 | .00000 | -.16404 |
| .900 | 8.365 | -.17345 | -.17631 | -.29536 | -.00374 | .00000 | -.17904 |
| .899 | 10.536 | -.17751 | -.18280 | -.31340 | -.00352 | .00000 | -.18846 |
| | GRADIENT | .00464 | .00414 | .00595 | .00000 | -.00323 | .00638 |

RUN NO. 48/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .979 | -11.037 | -.30424 | -.31332 | -.47641 | -.00678 | .00000 | -.36598 |
| .979 | -8.875 | -.30827 | -.30786 | -.46636 | -.00687 | .00000 | -.33567 |
| .981 | -6.691 | -.29158 | -.29106 | -.43965 | -.00744 | .00000 | -.30196 |
| .980 | -4.518 | -.26600 | -.27221 | -.42215 | .00000 | .00000 | -.28127 |
| .980 | -2.374 | -.24745 | -.25565 | -.40415 | .00710 | .00000 | -.25722 |
| .980 | -.200 | -.23770 | -.24797 | -.39074 | -.00707 | -.00666 | -.24662 |
| .980 | 1.999 | -.23428 | -.24669 | -.38738 | -.00709 | .00000 | -.24493 |
| .980 | 4.187 | -.23891 | -.25103 | -.39002 | -.00727 | .00000 | -.25448 |
| .980 | 6.292 | -.24142 | -.25203 | -.40033 | -.00727 | .00000 | -.26424 |
| .980 | 8.474 | -.24310 | -.26057 | -.41627 | -.00687 | .00000 | -.27401 |
| .980 | 10.598 | -.24078 | -.26790 | -.42049 | -.00703 | -.00662 | -.28134 |
| | GRADIENT | .00308 | .00235 | .00371 | -.00066 | .00000 | .00301 |

(R08110) (29 JAN 74)

LRC 8 TPT 667 IA41 T1P101

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 RRODER = .000

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

RUN NO. 47/ 0 RVL = 2.11 GRADIENT INTERVAL = -5.60/ 5.00

| WACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|---------|---------|---------|--------|---------|
| 1.201 | -11.149 | -.28684 | -.29061 | -.44893 | .00229 | .00000 | -.34347 |
| 1.202 | -9.051 | -.28138 | -.29197 | -.43542 | .00163 | .00000 | -.33170 |
| 1.203 | -6.712 | -.27022 | -.27810 | -.41947 | .00129 | .00000 | -.30455 |
| 1.203 | -4.621 | -.26284 | -.26647 | -.40892 | .00109 | .00000 | -.28126 |
| 1.204 | -2.444 | -.25267 | -.25339 | -.39322 | .00109 | .00000 | -.26747 |
| 1.202 | -.226 | -.23257 | -.23930 | -.38018 | .00182 | .00000 | -.25759 |
| 1.201 | 1.959 | -.22817 | -.23682 | -.37118 | .00198 | .00000 | -.25327 |
| 1.201 | 4.231 | -.23357 | -.24138 | -.36832 | .00000 | .00000 | -.25639 |
| 1.201 | 6.304 | -.23328 | -.24324 | -.36525 | .00213 | .00000 | -.25897 |
| 1.202 | 8.454 | -.23610 | -.24221 | -.36238 | .00197 | .00000 | -.25795 |
| 1.200 | 10.635 | -.23809 | -.24618 | -.35005 | .00254 | .00000 | -.25863 |
| GRADIENT | .00375 | .00302 | .00464 | -.00006 | -.00006 | .00000 | .00288 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 TIP104

(R00111) (29 JAN 74)

REFERENCE DATA

SRP = 2690.0000 SQ-FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BRP = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 56/ 0 RN/L = 3.10 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .600 | -9.893 | -.18838 | -.20249 | -.38351 | -.01067 | .00000 | -.19322 |
| .600 | -8.694 | -.18172 | -.19557 | -.37319 | -.01066 | .00000 | -.19053 |
| .600 | -6.618 | -.17438 | -.18602 | -.35025 | -.01043 | .00000 | -.18791 |
| .600 | -4.406 | -.16950 | -.17569 | -.32045 | -.01087 | .00000 | -.18259 |
| .600 | -2.208 | -.16613 | -.16910 | -.29905 | -.01062 | .00000 | -.18059 |
| .599 | -.052 | -.15498 | -.15952 | -.29514 | -.01089 | .00000 | -.17490 |
| .600 | 2.123 | -.16158 | -.16041 | -.29338 | -.01033 | -.01121 | -.15965 |
| .600 | 4.359 | -.16881 | -.17508 | -.29885 | -.01067 | .00000 | -.16558 |
| .599 | 6.527 | -.17941 | -.18427 | -.31683 | -.01069 | .00000 | -.17137 |
| .600 | 8.828 | -.20489 | -.20563 | -.34508 | -.01065 | .00000 | -.19022 |
| .600 | 9.896 | -.21223 | -.21284 | -.35639 | -.01064 | .00000 | -.19397 |
| | GRADIENT | .00026 | .00063 | .00223 | .00001 | -.00051 | .00251 |

RUN NO. 55/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|--------|---------|
| .799 | -10.687 | -.20554 | -.21248 | -.40329 | -.00126 | .00000 | -.20808 |
| .800 | -8.566 | -.18629 | -.19582 | -.37849 | -.00180 | .00000 | -.19563 |
| .799 | -6.401 | -.17572 | -.18424 | -.35176 | -.00175 | .00000 | -.19228 |
| .800 | -4.297 | -.16756 | -.17311 | -.32886 | -.00177 | .00000 | -.18502 |
| .799 | -2.085 | -.16416 | -.16771 | -.31170 | -.00177 | .00000 | -.18169 |
| .799 | -.020 | -.15245 | -.15931 | -.30245 | -.00150 | .00000 | -.17048 |
| .799 | 2.100 | -.15106 | -.15744 | -.30566 | -.00125 | .00000 | -.15878 |
| .799 | 4.259 | -.16993 | -.17261 | -.31345 | -.00174 | .00000 | -.16799 |
| .799 | 6.463 | -.18617 | -.18700 | -.32201 | -.00125 | .00000 | -.17746 |
| .799 | 8.575 | -.20349 | -.20168 | -.34222 | -.00175 | .00000 | -.19135 |
| .799 | 10.702 | -.23101 | -.22793 | -.37697 | -.00177 | .00000 | -.21551 |
| | GRADIENT | .00038 | .00032 | .00174 | .00003 | .00000 | .00267 |

LRC 8 TPT 667 IA41 T1P101

(R081111) (29 JAN 74)

REFERENCE DATA

SRF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0190 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 54/0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .900 | -10.837 | -.24822 | -.25337 | -.41434 | .00000 | .00000 | -.25169 |
| .900 | -8.684 | -.22985 | -.23441 | -.39269 | -.00462 | .00000 | -.23389 |
| .900 | -6.528 | -.21167 | -.21520 | -.36708 | -.00462 | .00000 | -.21470 |
| .900 | -4.386 | -.19629 | -.19941 | -.34607 | -.00484 | .00000 | -.20300 |
| .899 | -2.196 | -.18696 | -.18958 | -.32825 | -.00462 | -.00484 | -.19953 |
| .900 | -.008 | -.16975 | -.17834 | -.31043 | -.00484 | .00000 | -.18513 |
| .900 | 2.182 | -.17519 | -.18164 | -.31386 | -.00507 | .00000 | -.18345 |
| .900 | 4.341 | -.19057 | -.19917 | -.32303 | -.00484 | -.00550 | -.19070 |
| .899 | 6.516 | -.21992 | -.21787 | -.34079 | -.00462 | .00000 | -.21828 |
| .900 | 8.707 | -.24240 | -.23791 | -.35997 | -.00462 | .00000 | -.24666 |
| .900 | 10.844 | -.26786 | -.26178 | -.39377 | -.00462 | .00000 | -.25829 |
| | GRADIENT | .00034 | .00039 | .00278 | -.00002 | -.00026 | .00113 |

RUN NO. 53/0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|--------|---------|
| .979 | -10.808 | -.32871 | -.33462 | -.50171 | -.00622 | .00000 | -.35049 |
| .981 | -8.738 | -.31425 | -.31750 | -.48820 | -.00688 | .00000 | -.33315 |
| .981 | -6.573 | -.28882 | -.29252 | -.46080 | -.00682 | .00000 | -.30403 |
| .980 | -4.364 | -.26099 | -.26685 | -.43205 | -.00629 | .00000 | -.28070 |
| .980 | -2.201 | -.24104 | -.24831 | -.40834 | -.00635 | .00000 | -.26491 |
| .979 | -.008 | -.23638 | -.24668 | -.39129 | -.00593 | .00000 | -.24826 |
| .979 | 2.183 | -.23353 | -.24429 | -.40027 | -.00638 | .00000 | -.24295 |
| .980 | 4.363 | -.27225 | -.27595 | -.42250 | -.00629 | .00000 | -.26631 |
| .980 | 6.581 | -.30022 | -.29703 | -.44309 | -.00650 | .00000 | -.28581 |
| .978 | 8.766 | -.32348 | -.31945 | -.46698 | .00000 | .00000 | -.31175 |
| .979 | 10.986 | -.35405 | -.34822 | -.49966 | -.00619 | .00000 | -.35134 |
| | GRADIENT | -.00069 | -.00047 | .00124 | -.00000 | .00000 | .00232 |

RUN NO. 32/0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|---------|---------|---------|--------|--------|---------|
| 1.201 | -8.788 | -.32327 | -.32344 | -.44940 | .00311 | .00000 | -.33798 |
| 1.201 | -6.601 | -.28620 | -.29142 | -.43038 | .00283 | .00000 | -.31220 |
| 1.201 | -4.390 | -.25500 | -.26097 | -.40816 | .00275 | .00000 | -.28489 |
| 1.201 | -2.231 | -.23943 | -.24165 | -.38547 | .00283 | .00000 | -.26377 |
| 1.201 | .002 | -.23367 | -.23745 | -.37823 | .00285 | .00000 | -.25703 |
| 1.201 | 2.211 | -.24538 | -.24895 | -.38256 | .00301 | .00000 | -.24827 |
| 1.201 | 4.387 | -.26187 | -.25803 | -.38650 | .00286 | .00000 | -.25332 |
| 1.201 | 6.600 | -.28697 | -.28012 | -.39866 | .00304 | .00000 | -.27101 |
| 1.200 | 8.894 | -.30793 | -.29960 | -.40826 | .00283 | .00000 | -.28554 |
| | GRADIENT | -.00090 | -.00007 | .00210 | .00002 | .00000 | .00357 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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LRC @ TPT 667 1A41 TPI1

(R08112) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES Z'IP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 61/ 0 RV/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|--------|---------|--------|--------|--------|
| .599 | -10.315 | -.12790 | .00000 | -.23093 | .00000 | .00000 | .00000 |
| .599 | -8.232 | -.10988 | .00000 | -.20728 | .00000 | .00000 | .00000 |
| .599 | -6.143 | -.09947 | .00000 | -.18733 | .00000 | .00000 | .00000 |
| .598 | -4.146 | -.10079 | .00000 | -.17354 | .00000 | .00000 | .00000 |
| .599 | -2.087 | -.09715 | .00000 | -.16069 | .00000 | .00000 | .00000 |
| .600 | -.027 | -.09041 | .00000 | -.15243 | .00000 | .00000 | .00000 |
| .599 | 2.086 | -.09148 | .00000 | -.14989 | .00000 | .00000 | .00000 |
| .600 | 4.129 | -.09423 | .00000 | -.14501 | .00000 | .00000 | .00000 |
| .598 | 6.120 | -.09024 | .00000 | -.13544 | .00000 | .00000 | .00000 |
| .600 | 8.194 | -.09253 | .00000 | -.13324 | .00000 | .00000 | .00000 |
| .600 | 10.238 | -.10154 | .00000 | -.13153 | .00000 | .00000 | .00000 |
| | GRADIENT | .00091 | .00000 | .00327 | .00000 | .00000 | .00000 |

RUN NO. 60/ 0 RV/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|--------|---------|--------|--------|--------|
| .799 | -10.193 | -.15958 | .00000 | -.26823 | .00000 | .00000 | .00000 |
| .801 | -8.183 | -.15091 | .00000 | -.24632 | .00000 | .00000 | .00000 |
| .800 | -6.155 | -.14269 | .00000 | -.21688 | .00000 | .00000 | .00000 |
| .800 | -4.067 | -.13385 | .00000 | -.20036 | .00000 | .00000 | .00000 |
| .799 | -2.101 | -.12684 | .00000 | -.18456 | .00000 | .00000 | .00000 |
| .800 | -.011 | -.13359 | .00000 | -.18186 | .00000 | .00000 | .00000 |
| .799 | 1.986 | -.12901 | .00000 | -.17901 | .00000 | .00000 | .00000 |
| .799 | 4.066 | -.11343 | .00000 | -.16377 | .00000 | .00000 | .00000 |
| .800 | 6.076 | -.11517 | .00000 | -.16670 | .00000 | .00000 | .00000 |
| .799 | 8.096 | -.12842 | .00000 | -.17377 | .00000 | .00000 | .00000 |
| .799 | 10.179 | -.14008 | .00000 | -.18493 | .00000 | .00000 | .00000 |
| | GRADIENT | .00190 | .00000 | .00386 | .00000 | .00000 | .00000 |

LRC 8 TPT 667 1A41 TIP1

(R08112) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 88.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 59/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|--------|---------|--------|--------|--------|
| .899 | -10.250 | -.20707 | .00000 | -.29179 | .00000 | .00000 | .00000 |
| .900 | -8.141 | -.19209 | .00000 | -.26580 | .00000 | .00000 | .00000 |
| .901 | -6.186 | -.17612 | .00000 | -.23982 | .00000 | .00000 | .00000 |
| .899 | -4.111 | -.15835 | .00000 | -.21671 | .00000 | .00000 | .00000 |
| .900 | -2.086 | -.16485 | .00000 | -.21330 | .00000 | .00000 | .00000 |
| .901 | -.040 | -.14252 | .00000 | -.19794 | .00000 | .00000 | .00000 |
| .900 | 2.014 | -.11886 | .00000 | -.19084 | .00000 | .00000 | .00000 |
| .898 | 4.060 | -.12532 | .00000 | -.19449 | .00000 | .00000 | .00000 |
| .900 | 6.117 | -.13772 | .00000 | -.20554 | .00000 | .00000 | .00000 |
| .900 | 8.238 | -.15478 | .00000 | -.21566 | .00000 | .00000 | .00000 |
| .920 | 10.207 | -.17016 | .00000 | -.22547 | .00000 | .00000 | .00000 |
| | GRADIENT | .00568 | .00000 | .00327 | .00000 | .00000 | .00000 |

RUN NO. 58/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|--------|---------|--------|--------|--------|
| .980 | -10.312 | -.26329 | .00000 | -.33023 | .00000 | .00000 | .00000 |
| .980 | -8.187 | -.23145 | .00000 | -.29494 | .00000 | .00000 | .00000 |
| .980 | -6.203 | -.20777 | .00000 | -.27283 | .00000 | .00000 | .00000 |
| .980 | -4.137 | -.21362 | .00000 | -.26776 | .00000 | .00000 | .00000 |
| .979 | -2.105 | -.18468 | .00000 | -.24747 | .00000 | .00000 | .00000 |
| .979 | -.042 | -.15390 | .00000 | -.23221 | .00000 | .00000 | .00000 |
| .980 | 2.022 | -.14772 | .00000 | -.23274 | .00000 | .00000 | .00000 |
| .979 | 4.067 | -.15837 | .00000 | -.23861 | .00000 | .00000 | .00000 |
| .980 | 6.132 | -.17263 | .00000 | -.24708 | .00000 | .00000 | .00000 |
| .979 | 8.182 | -.18863 | .00000 | -.25568 | .00000 | .00000 | .00000 |
| .979 | 10.276 | -.20798 | .00000 | -.26856 | .00000 | .00000 | .00000 |
| | GRADIENT | .00718 | .00000 | .00353 | .00000 | .00000 | .00000 |



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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 T1P1

(R08112) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

PARAMETRIC D/A

BETA = .000 RUDDER = .000

RUN NO. 57/0 RN/L = 2.10 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|---------|--------|---------|--------|--------|--------|
| 1.201 | -10.357 | -.26720 | .00000 | -.26900 | .00000 | .00000 | .00000 |
| 1.201 | -6.283 | -.24608 | .00000 | -.27526 | .00000 | .00000 | .00000 |
| 1.202 | -6.242 | -.22729 | .00000 | -.26456 | .00000 | .00000 | .00000 |
| 1.200 | -4.174 | -.20876 | .00000 | -.23228 | .00000 | .00000 | .00000 |
| 1.200 | -2.118 | -.20286 | .00000 | -.24416 | .00000 | .00000 | .00000 |
| 1.200 | -.043 | -.18899 | .00000 | -.23208 | .00000 | .00000 | .00000 |
| 1.200 | 2.021 | -.18085 | .00000 | -.22503 | .00000 | .00000 | .00000 |
| 1.200 | 4.079 | -.18528 | .00000 | -.22899 | .00000 | .00000 | .00000 |
| 1.200 | 6.147 | -.18871 | .00000 | -.23488 | .00000 | .00000 | .00000 |
| 1.199 | 8.244 | -.19654 | .00000 | -.24127 | .00000 | .00000 | .00000 |
| 1.200 | 10.292 | -.21170 | .00000 | -.25388 | .00000 | .00000 | .00000 |
| | GRADIENT | .00334 | .00000 | .00318 | .00000 | .00000 | .00000 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (11A-41)

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LRC 8 TPT 667 1A41 T1P1

(R08113) (29 JAN 74)

REFERENCE DATA

SREF = 2420.0000 SQ.FT. ZMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 66/ 0 RV/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|--------|---------|--------|--------|--------|
| .600 | -10.330 | -.11293 | .00000 | -.20696 | .00000 | .00000 | .00000 |
| .600 | -8.251 | -.09590 | .00000 | -.18347 | .00000 | .00000 | .00000 |
| .600 | -6.196 | -.08990 | .00000 | -.16450 | .00000 | .00000 | .00000 |
| .600 | -4.136 | -.09070 | .00000 | -.16435 | .00000 | .00000 | .00000 |
| .600 | -2.062 | -.08959 | .00000 | -.15355 | .00000 | .00000 | .00000 |
| .600 | -.005 | -.09072 | .00000 | -.15501 | .00000 | .00000 | .00000 |
| .600 | 2.056 | -.10766 | .00000 | -.15603 | .00000 | .00000 | .00000 |
| .599 | 4.120 | -.11751 | .00000 | -.16804 | .00000 | .00000 | .00000 |
| .600 | 6.193 | -.11979 | .00000 | -.18220 | .00000 | .00000 | .00000 |
| .600 | 8.250 | -.12796 | .00000 | -.19999 | .00000 | .00000 | .00000 |
| .599 | 10.320 | -.13871 | .00000 | -.22054 | .00000 | .00000 | .00000 |
| | GRADIENT | -.00347 | .00000 | -.00048 | .00000 | .00000 | .00000 |

RUN NO. 65/ 0 RV/L = 1.69 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|--------|---------|--------|--------|--------|
| .800 | -10.253 | -.15694 | .00000 | -.24010 | .00000 | .00000 | .00000 |
| .801 | -8.180 | -.14105 | .00000 | -.21605 | .00000 | .00000 | .00000 |
| .801 | -6.141 | -.12503 | .00000 | -.19579 | .00000 | .00000 | .00000 |
| .800 | -4.095 | -.12509 | .00000 | -.18975 | .00000 | .00000 | .00000 |
| .801 | -2.038 | -.12137 | .00000 | -.17682 | .00000 | .00000 | .00000 |
| .800 | -.013 | -.13392 | .00000 | -.18455 | .00000 | .00000 | .00000 |
| .800 | 2.042 | -.12600 | .00000 | -.17706 | .00000 | .00000 | .00000 |
| .801 | 4.078 | -.13632 | .00000 | -.19227 | .00000 | .00000 | .00000 |
| .800 | 6.129 | -.13906 | .00000 | -.21186 | .00000 | .00000 | .00000 |
| .799 | 8.189 | -.15411 | .00000 | -.22932 | .00000 | .00000 | .00000 |
| .800 | 10.225 | -.17288 | .00000 | -.24986 | .00000 | .00000 | .00000 |
| | GRADIENT | -.00074 | .00000 | -.00026 | .00000 | .00000 | .00000 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 T1P1

(R08113) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 64/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|--------|---------|--------|--------|--------|
| .900 | -10.291 | -.20864 | .00000 | -.27411 | .00000 | .00000 | .00000 |
| .900 | -8.236 | -.19275 | .00000 | -.25522 | .00000 | .00000 | .00000 |
| .900 | -6.176 | -.17407 | .00000 | -.23113 | .00000 | .00000 | .00000 |
| .900 | -4.111 | -.15836 | .00000 | -.21127 | .00000 | .00000 | .00000 |
| .900 | -2.057 | -.14788 | .00000 | -.19816 | .00000 | .00000 | .00000 |
| .899 | -.014 | -.14057 | .00000 | -.19758 | .00000 | .00000 | .00000 |
| .900 | 2.049 | -.14860 | .00000 | -.20068 | .00000 | .00000 | .00000 |
| .900 | 4.114 | -.15163 | .00000 | -.20950 | .00000 | .00000 | .00000 |
| .899 | 6.172 | -.16900 | .00000 | -.23574 | .00000 | .00000 | .00000 |
| .900 | 8.214 | -.18777 | .00000 | -.25468 | .00000 | .00000 | .00000 |
| .900 | 10.301 | -.20645 | .00000 | -.27764 | .00000 | .00000 | .00000 |
| | GRADIENT | .00062 | .00000 | .00003 | .00000 | .00000 | .00000 |

RUN NO. 63/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|--------|---------|--------|--------|--------|
| .980 | -10.363 | -.27576 | .00000 | -.33197 | .00000 | .00000 | .00000 |
| .981 | -8.282 | -.25277 | .00000 | -.30965 | .00000 | .00000 | .00000 |
| .980 | -6.209 | -.22771 | .00000 | -.28444 | .00000 | .00000 | .00000 |
| .980 | -4.143 | -.19934 | .00000 | -.26130 | .00000 | .00000 | .00000 |
| .980 | -2.068 | -.18154 | .00000 | -.24180 | .00000 | .00000 | .00000 |
| .980 | -.004 | -.15578 | .00000 | -.23372 | .00000 | .00000 | .00000 |
| .979 | 2.069 | -.16951 | .00000 | -.23801 | .00000 | .00000 | .00000 |
| .979 | 4.124 | -.18867 | .00000 | -.25994 | .00000 | .00000 | .00000 |
| .979 | 6.181 | -.21269 | .00000 | -.28477 | .00000 | .00000 | .00000 |
| .979 | 8.268 | -.24446 | .00000 | -.30810 | .00000 | .00000 | .00000 |
| .979 | 10.349 | -.27539 | .00000 | -.33002 | .00000 | .00000 | .00000 |
| | GRADIENT | .06162 | .00000 | .00061 | .00000 | .00000 | .00000 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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(R00113) (29 JAN 74)

LRC 8 TPT 667 IA41 TYP1

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

ALPHA = .000 RUDDER = .000

RUN NO. 62/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|---------|--------|---------|--------|--------|--------|
| 1.200 | -10.426 | -.26711 | .00000 | -.30091 | .00000 | .00000 | .00008 |
| 1.201 | -8.337 | -.24929 | .00000 | -.28695 | .00000 | .00000 | .00000 |
| 1.201 | -6.246 | -.22471 | .00000 | -.26241 | .00000 | .00000 | .00000 |
| 1.202 | -4.155 | -.20643 | .00000 | -.24656 | .00000 | .00000 | .00000 |
| 1.202 | -2.105 | -.19012 | .00000 | -.23117 | .00000 | .00000 | .00000 |
| 1.202 | -.006 | -.18064 | .00000 | -.23025 | .00000 | .00000 | .00000 |
| 1.202 | 2.062 | -.19007 | .00000 | -.23420 | .00000 | .00000 | .00000 |
| 1.201 | 4.153 | -.20137 | .00000 | -.24524 | .00000 | .00000 | .00000 |
| 1.201 | 6.227 | -.23494 | .00000 | -.27294 | .00000 | .00000 | .00000 |
| 1.200 | 8.322 | -.26272 | .00000 | -.29862 | .00000 | .00000 | .00000 |
| 1.200 | 10.422 | -.28196 | .00000 | -.31342 | .00000 | .00000 | .00000 |
| 1.200 | GRADIENT | .00048 | .00000 | -.00002 | .00000 | .00000 | .00000 |

LRC 8 TPT 667 IA41 TIP1SIP2

(R06114) (29 JAN 74)

REFERENCE DATA

SREF = 2695.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 71/ 0 RN/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|--------|---------|---------|---------|--------|
| .599 | -10.765 | -.26291 | .00000 | -.31783 | -.29658 | -.32412 | .00000 |
| .599 | -8.623 | -.25778 | .00000 | -.30989 | -.27584 | -.30910 | .00000 |
| .599 | -6.483 | -.24939 | .00000 | -.30554 | -.26287 | -.29325 | .00000 |
| .599 | -4.360 | -.24469 | .00000 | -.30369 | -.22842 | -.27225 | .00000 |
| .599 | -2.210 | -.24932 | .00000 | -.30407 | -.19311 | -.26077 | .00000 |
| .599 | -.076 | -.25733 | .00000 | -.30580 | -.17868 | -.24774 | .00000 |
| .599 | 2.074 | -.26305 | .00000 | -.30663 | -.18094 | -.24582 | .00000 |
| .599 | 4.232 | -.26794 | .00000 | -.30657 | -.19936 | -.25453 | .00000 |
| .600 | 6.376 | -.26617 | .00000 | -.30408 | -.23604 | -.29670 | .00000 |
| .599 | 8.503 | -.27082 | .00000 | -.31187 | -.27457 | -.27930 | .00000 |
| .599 | 10.648 | -.27388 | .00000 | -.31871 | -.30687 | -.30561 | .00000 |
| GRADIENT | | -.00281 | .00000 | -.00039 | .00327 | .00234 | .00000 |

RUN NO. 70/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|--------|---------|---------|---------|--------|
| .799 | -10.585 | -.28483 | .00000 | -.33320 | -.30996 | -.29804 | .00000 |
| .799 | -8.471 | -.27663 | .00000 | -.32498 | -.28991 | -.27928 | .00000 |
| .799 | -6.376 | -.27320 | .00000 | -.32060 | -.26137 | -.26209 | .00000 |
| .799 | -4.282 | -.27192 | .00000 | -.31725 | -.22520 | -.24497 | .00000 |
| .800 | -2.178 | -.27361 | .00000 | -.31526 | -.18914 | -.22689 | .00000 |
| .800 | -.074 | -.28130 | .00000 | -.31559 | -.16710 | -.21446 | .00000 |
| .799 | 2.074 | -.29194 | .00000 | -.31803 | -.17255 | -.22155 | .00000 |
| .799 | 4.161 | -.29514 | .00000 | -.31681 | -.19586 | -.22203 | .00000 |
| .799 | 6.279 | -.29969 | .00000 | -.31943 | -.22837 | -.23318 | .00000 |
| .799 | 8.374 | -.30451 | .00000 | -.32672 | -.26467 | -.24851 | .00000 |
| .799 | 10.502 | -.30923 | .00000 | -.33133 | -.29755 | -.27687 | .00000 |
| GRADIENT | | -.00307 | .00000 | -.00009 | .00356 | .00242 | .00000 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 T1P1S1P2

(R08114) (29 JAN 74)

REFERENCE DATA

SEEF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 69/ 2 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|--------|---------|---------|---------|--------|
| .901 | -10.702 | -.32322 | .00000 | -.36275 | -.32010 | -.29409 | .00000 |
| .901 | -8.541 | -.31738 | .00000 | -.35573 | -.29980 | -.27693 | .00000 |
| .900 | -6.460 | -.31635 | .00000 | -.35138 | -.26681 | -.25581 | .00000 |
| .901 | -4.335 | -.31739 | .00000 | -.34133 | -.22898 | -.23572 | .00000 |
| .901 | -2.206 | -.32292 | .00000 | -.33929 | -.19166 | -.21773 | .00000 |
| .901 | -.081 | -.32339 | .00000 | -.33886 | -.17975 | -.21000 | .00000 |
| .900 | 2.066 | -.32649 | .00000 | -.34326 | -.17926 | -.20976 | .00000 |
| .900 | 4.214 | -.33828 | .00000 | -.35296 | -.20276 | -.22557 | .00000 |
| .900 | 6.326 | -.34477 | .00000 | -.35682 | -.24035 | -.23972 | .00000 |
| .900 | 8.431 | -.34729 | .00000 | -.36198 | -.27363 | -.24859 | .00000 |
| .901 | 10.585 | -.35469 | .00000 | -.36920 | -.30876 | -.27781 | .00000 |
| GRADIENT | | -.00212 | .00000 | -.00128 | .00302 | .00132 | .00000 |

RUN NO. 68/ 0 RNL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|--------|---------|---------|---------|--------|
| .980 | -10.823 | -.36896 | .00000 | -.40878 | -.33740 | -.30299 | .00000 |
| .981 | -8.654 | -.36365 | .00000 | -.39902 | -.31467 | -.27580 | .00000 |
| .981 | -6.503 | -.35595 | .00000 | -.39089 | -.28749 | -.25247 | .00000 |
| .981 | -4.351 | -.34826 | .00000 | -.37797 | -.25784 | -.23147 | .00000 |
| .981 | -2.217 | -.34925 | .00000 | -.36921 | -.22694 | -.22756 | .00000 |
| .981 | -.080 | -.36043 | .00000 | -.37099 | -.20650 | -.22522 | .00000 |
| .981 | 2.086 | -.36192 | .00000 | -.37369 | -.20899 | -.22396 | .00000 |
| .980 | 4.213 | -.36312 | .00000 | -.37403 | -.24093 | -.23868 | .00000 |
| .981 | 6.364 | -.36960 | .00000 | -.38554 | -.27613 | -.25566 | .00000 |
| .980 | 8.510 | -.37714 | .00000 | -.39852 | -.30397 | -.27208 | .00000 |
| .978 | 10.687 | -.38729 | .00000 | -.40996 | -.33031 | -.30183 | .00000 |
| GRADIENT | | -.00198 | .00000 | .00016 | .00241 | -.00050 | .00000 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-61)

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LRC 8 TPT 667 1A41 T1P1S1P2

(R08114) (29 JAN 74)

REFERENCE DATA

SREF = 2695.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 FUDDER = .000

RUN NO. 67/ 0 FNL = 2.12 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|--------|--------|--------|----------|----------|--------|
| 1.200 | -11.031 | -31295 | .00000 | -35307 | -38294 | -40201 | .00000 |
| 1.202 | -8.811 | -30921 | .00000 | -34452 | -35934 | -37369 | .00000 |
| 1.203 | -6.624 | -31035 | .00000 | -34344 | -32529 | -33608 | .00000 |
| 1.202 | -4.432 | -30510 | .00000 | -34104 | -30351 | -32264 | .00000 |
| 1.202 | -2.249 | -30914 | .00000 | -33356 | -29223 | -32352 | .00000 |
| 1.202 | -.092 | -31204 | .00000 | -33294 | -28871 | -32387 | .00000 |
| 1.202 | 2.103 | -30842 | .00000 | -33086 | -28935 | -32115 | .00000 |
| 1.201 | 4.291 | -30894 | .00000 | -32374 | -30906 | -32461 | .00000 |
| 1.201 | 6.443 | -30959 | .00000 | -33346 | -32274 | -32121 | .00000 |
| 1.201 | 8.665 | -31520 | .00000 | -33749 | -34018 | -33301 | .00000 |
| 1.201 | 10.885 | -31114 | .00000 | -33841 | -32285 | -35431 | .00000 |
| 1.201 | GRADIENT | -30032 | .00000 | .05116 | -0.00039 | -0.00037 | .00000 |

LRC 8 TPT 667 1A41 T1P1S1P2

(R08115) (29 JAN 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 76/ 0 RN/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|--------|---------|---------|---------|--------|
| .601 | -10.230 | -.26894 | .00000 | -.32583 | -.27230 | -.29591 | .00000 |
| .599 | -8.239 | -.26945 | .00000 | -.31531 | -.25389 | -.27930 | .00000 |
| .599 | -6.071 | -.27141 | .00000 | -.30899 | -.22708 | -.26670 | .00000 |
| .599 | -4.099 | -.27096 | .00000 | -.30618 | -.21121 | -.26315 | .00000 |
| .599 | -1.885 | -.26645 | .00000 | -.30311 | -.19879 | -.26083 | .00000 |
| .599 | -.009 | -.25935 | .00000 | -.30528 | -.18178 | -.25071 | .00000 |
| .599 | 2.062 | -.25011 | .00000 | -.30407 | -.16612 | -.24526 | .00000 |
| .599 | 4.113 | -.24872 | .00000 | -.30343 | -.15909 | -.24699 | .00000 |
| .599 | 6.161 | -.25858 | .00000 | -.30694 | -.15129 | -.25150 | .00000 |
| .600 | 8.250 | -.26930 | .00000 | -.31427 | -.14567 | -.25843 | .00000 |
| .599 | 10.233 | -.27880 | .00000 | -.32474 | -.13398 | -.23405 | .00000 |
| | GRADIENT | .00298 | .00000 | .00023 | .00671 | .00234 | .00000 |

RUN NO. 75/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|--------|---------|---------|---------|--------|
| .800 | -10.210 | -.30322 | .00000 | -.32720 | -.29092 | -.28553 | .00000 |
| .800 | -8.093 | -.30053 | .00000 | -.31789 | -.25418 | -.25638 | .00000 |
| .800 | -6.079 | -.29867 | .00000 | -.31610 | -.22846 | -.23968 | .00000 |
| .801 | -4.079 | -.29463 | .00000 | -.31569 | -.20980 | -.22959 | .00000 |
| .801 | -2.010 | -.28904 | .00000 | -.31667 | -.19225 | -.22299 | .00000 |
| .800 | .099 | -.28281 | .00000 | -.31550 | -.17065 | -.21545 | .00000 |
| .800 | 2.038 | -.27576 | .00000 | -.31192 | -.15719 | -.21425 | .00000 |
| .800 | 4.239 | -.27443 | .00000 | -.30986 | -.14872 | -.21606 | .00000 |
| .800 | 6.152 | -.27944 | .00000 | -.31223 | -.14501 | -.22589 | .00000 |
| .800 | 8.148 | -.28209 | .00000 | -.31657 | -.13873 | -.23115 | .00000 |
| .799 | 10.247 | -.28996 | .00000 | -.32794 | -.13125 | -.23337 | .00000 |
| | GRADIENT | .00259 | .00000 | .00079 | .00759 | .00173 | .00000 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-61)

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LRC 8 TPT 667 1A41 T1P1S1P2

(R48113) (29 JAN 74)

REFERENCE DATA

SREF = 2890.0000 50.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 74/0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|--------|---------|---------|---------|--------|
| .899 | -10.303 | -.35336 | .00000 | -.36030 | -.29882 | -.28388 | .00000 |
| .901 | -8.225 | -.34894 | .00000 | -.35209 | -.27487 | -.26194 | .00000 |
| .903 | -6.035 | -.34254 | .00000 | -.34608 | -.24557 | -.24410 | .00000 |
| .905 | -3.984 | -.33744 | .00000 | -.34425 | -.22193 | -.23223 | .00000 |
| .899 | -1.958 | -.32883 | .00000 | -.34038 | -.20372 | -.22179 | .00000 |
| .905 | -.002 | -.32468 | .00000 | -.33834 | -.18400 | -.21206 | .00000 |
| .900 | 2.063 | -.32346 | .00000 | -.33962 | -.16686 | -.20340 | .00000 |
| .900 | 4.101 | -.32778 | .00000 | -.34226 | -.15423 | -.20605 | .00000 |
| .901 | 6.195 | -.32877 | .00000 | -.34409 | -.14415 | -.21240 | .00000 |
| .899 | 8.254 | -.32752 | .00000 | -.35036 | -.13856 | -.21872 | .00000 |
| .900 | 10.256 | -.32414 | .00000 | -.35939 | -.12918 | -.21869 | .00000 |
| GRADIENT | | .00122 | .00000 | .00023 | .00853 | .00340 | .00000 |

RUN NO. 73/0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|----------|---------|---------|--------|---------|---------|---------|--------|
| .979 | -10.299 | -.39558 | .00000 | -.39848 | -.35776 | -.33808 | .00000 |
| .980 | -8.209 | -.39333 | .00000 | -.39483 | -.32635 | -.31154 | .00000 |
| .980 | -6.143 | -.38661 | .00000 | -.38971 | -.28011 | -.28110 | .00000 |
| .980 | -4.003 | -.37556 | .00000 | -.38309 | -.24984 | -.25358 | .00000 |
| .980 | -2.047 | -.36699 | .00000 | -.37658 | -.22761 | -.23633 | .00000 |
| .980 | -.003 | -.36193 | .00000 | -.37060 | -.20875 | -.22521 | .00000 |
| .980 | 2.061 | -.36340 | .00000 | -.37204 | -.19129 | -.21678 | .00000 |
| .979 | 4.149 | -.37133 | .00000 | -.38041 | -.17569 | -.21256 | .00000 |
| .979 | 6.171 | -.37715 | .00000 | -.38610 | -.16571 | -.21341 | .00000 |
| .979 | 8.271 | -.38349 | .00000 | -.39395 | -.15221 | -.20960 | .00000 |
| .978 | 10.301 | -.38421 | .00000 | -.40236 | -.14383 | -.20642 | .00000 |
| GRADIENT | | .00055 | .00000 | .00047 | .00904 | .00496 | .00000 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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(R08119) (29 JAN 74)

LRC 8 TPT 667 IA41 T1P1S1P2

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 72/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.60/ 5.00

| WICH | BETA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|---------|--------|---------|---------|---------|--------|
| 1.201 | -10.361 | -.33660 | .00000 | -.34220 | -.40328 | -.41656 | .00000 |
| 1.201 | -8.323 | -.33162 | .00000 | -.33646 | -.37941 | -.39698 | .00000 |
| 1.201 | -6.176 | -.32871 | .00000 | -.33653 | -.35737 | -.39008 | .00000 |
| 1.201 | -4.136 | -.32157 | .00000 | -.33373 | -.33281 | -.37788 | .00000 |
| 1.201 | -2.047 | -.31813 | .00000 | -.33564 | -.32056 | -.36493 | .00000 |
| 1.200 | .017 | -.31352 | .00000 | -.33131 | -.30228 | -.34403 | .00000 |
| 1.201 | 2.071 | -.31511 | .00000 | -.32706 | -.27501 | -.31492 | .00000 |
| 1.201 | 4.162 | -.32079 | .00000 | -.32843 | -.25642 | -.29758 | .00000 |
| 1.200 | 6.249 | -.32837 | .00000 | -.33347 | -.24148 | -.28501 | .00000 |
| 1.201 | 8.275 | -.33461 | .00000 | -.33938 | -.23290 | -.27467 | .00000 |
| 1.201 | 10.372 | -.33844 | .00000 | -.34711 | -.24007 | -.27734 | .00000 |
| 1.200 | GRADIENT | .00000 | .00000 | .00000 | .00965 | .01014 | .00000 |



TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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(R00116) (29 JAN 74)

LRC 8 TPT 667 1A41 T1P1S1P201

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 INCHES
 LREF = 1290.3000 INCHES YREF = .0000 INCHES
 BREF = 1290.3000 INCHES ZREF = 400.0000 INCHES
 SCALE = .0100 SCALE

RUN NO. 81/ 0 RN/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .799 | -11.970 | -.2254 | -.23127 | -.48714 | -.01165 | -.37049 | -.22276 |
| .599 | -9.716 | -.22024 | -.22935 | -.46933 | -.01107 | -.35751 | -.21987 |
| .600 | -7.390 | -.21640 | -.22574 | -.44880 | -.01121 | -.33738 | -.21514 |
| .598 | -5.170 | -.21485 | -.22370 | -.43239 | -.01134 | -.31862 | -.21286 |
| .599 | -2.858 | -.21282 | -.22130 | -.41789 | -.01167 | -.30380 | -.21106 |
| .599 | -.638 | -.20805 | -.21836 | -.40895 | -.01169 | -.29430 | -.21254 |
| .599 | 1.628 | -.20291 | -.21520 | -.40256 | -.01145 | -.29736 | -.21594 |
| .600 | 3.920 | -.19686 | -.21291 | -.39378 | -.01143 | -.30562 | -.21940 |
| .600 | 6.262 | -.18366 | -.20881 | -.39099 | -.01106 | -.32613 | -.22550 |
| .598 | 8.520 | -.17568 | -.20725 | -.38431 | -.01134 | -.33952 | -.23133 |
| .600 | 10.791 | -.17634 | -.20549 | -.37821 | -.01124 | -.33935 | -.23654 |
| | GRADIENT | .00235 | .00125 | .00282 | .00004 | -.00039 | -.00126 |

RUN NO. 80/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .799 | -11.564 | -.25105 | -.24679 | -.48400 | -.00277 | -.34982 | -.25091 |
| .801 | -9.300 | -.24152 | -.23769 | -.46356 | -.00231 | -.34170 | -.23795 |
| .801 | -7.035 | -.23180 | -.22892 | -.44687 | -.00256 | -.32820 | -.22789 |
| .801 | -4.874 | -.22260 | -.21963 | -.42685 | -.00231 | -.31625 | -.21784 |
| .800 | -2.635 | -.21465 | -.21286 | -.41083 | -.00229 | -.30824 | -.20953 |
| .800 | -.501 | -.20809 | -.20848 | -.40392 | -.00255 | -.29917 | -.20309 |
| .799 | 1.745 | -.20513 | -.20713 | -.39276 | -.00278 | -.30129 | -.20329 |
| .800 | 4.034 | -.20160 | -.20572 | -.39098 | -.00281 | -.31761 | -.20472 |
| .800 | 6.130 | -.19821 | -.20379 | -.39228 | -.00306 | -.33341 | -.20795 |
| .799 | 8.339 | -.19562 | -.20323 | -.39118 | -.00278 | -.34211 | -.21050 |
| .800 | 10.510 | -.20417 | -.20955 | -.39346 | -.00229 | -.33770 | -.21242 |
| | GRADIENT | .00232 | .00151 | .00404 | -.00007 | .00017 | .00145 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

PAGE 94

LRC 6 TPT 667 1A41 TIP1SIP20X

(R08116) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .5150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 79/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .900 | -11.806 | -.29423 | -.29329 | -.49813 | -.00552 | -.35227 | -.29637 |
| .902 | -9.505 | -.29461 | -.29117 | -.47075 | -.00595 | -.33907 | -.29153 |
| .901 | -7.294 | -.28541 | -.28214 | -.44991 | -.00574 | -.32801 | -.28545 |
| .901 | -5.013 | -.27085 | -.26717 | -.43980 | -.00596 | -.32268 | -.27230 |
| .900 | -2.747 | -.25851 | -.25527 | -.42842 | -.00574 | -.32150 | -.26291 |
| .901 | -.514 | -.25118 | -.24785 | -.41962 | -.00573 | -.31733 | -.25503 |
| .901 | 1.757 | -.24621 | -.24455 | -.41596 | -.00551 | -.32223 | -.25196 |
| .900 | 3.954 | -.25140 | -.25327 | -.40672 | -.00529 | -.33423 | -.26181 |
| .901 | 6.212 | -.24224 | -.24428 | -.41109 | -.00574 | -.35617 | -.25441 |
| .900 | 8.457 | -.25237 | -.25581 | -.40859 | -.00506 | -.36138 | -.26389 |
| .901 | 10.672 | -.24910 | -.24898 | -.41280 | -.00574 | -.35632 | -.26091 |
| | GRADIENT | .00118 | .00242 | .00307 | .00007 | -.00192 | .00029 |

RUN NO. 78/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|---------|---------|---------|---------|---------|---------|
| .979 | -12.251 | -.38010 | -.39528 | -.54950 | -.00682 | -.40164 | -.43871 |
| .980 | -9.805 | -.37458 | -.38024 | -.52927 | -.00742 | -.40017 | -.40717 |
| .980 | -7.475 | -.36799 | -.36855 | -.51494 | -.00726 | -.39598 | -.38631 |
| .979 | -5.219 | -.35539 | -.35241 | -.50225 | -.00734 | -.39405 | -.35704 |
| .980 | -2.874 | -.34464 | -.34143 | -.49250 | -.00739 | -.39055 | -.33897 |
| .979 | -.626 | -.34023 | -.33815 | -.49296 | -.00704 | -.40224 | -.33465 |
| .979 | 1.677 | -.33411 | -.33298 | -.49331 | -.00734 | -.42580 | -.32781 |
| .980 | 3.919 | -.33352 | -.33302 | -.49213 | -.00736 | -.44926 | -.33182 |
| .980 | 6.220 | -.34075 | -.34389 | -.49106 | -.00739 | -.47294 | -.34560 |
| .980 | 8.460 | -.34161 | -.34284 | -.49132 | -.00753 | -.49759 | -.34414 |
| .980 | 10.702 | -.33698 | -.34206 | -.49300 | -.00697 | -.49963 | -.34315 |
| | GRADIENT | .00174 | .00134 | .00003 | -.00001 | -.00881 | .00125 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

DATE 12 JUL 74

(R004116) (29 JAN 74)

LRC 8 TPT 667 IA41 TIP1SIP201

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

REFERENCE DATA

SREF = 2693.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 77/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|--------|--------|---------|--------|---------|---------|
| 1.201 | -10.820 | -33486 | -33788 | -45314 | .00213 | -.36677 | -.36668 |
| 1.201 | -10.161 | -33251 | -33320 | -.45042 | .00190 | -.36553 | -.36199 |
| 1.201 | -7.799 | -32059 | -32094 | -.43724 | .00220 | -.35984 | -.34193 |
| 1.201 | -5.442 | -30556 | -30344 | -.42487 | .00202 | -.35049 | -.31824 |
| 1.201 | -3.052 | -29421 | -29138 | -.41214 | .00182 | -.33743 | -.29871 |
| 1.201 | -.696 | -28848 | -28631 | -.40309 | .00176 | -.33766 | -.28252 |
| 1.201 | 1.621 | -28970 | -28860 | -.40266 | .00187 | -.36715 | -.28263 |
| 1.201 | 3.987 | -28375 | -28441 | -.40012 | .00205 | -.38809 | -.28080 |
| 1.201 | 6.277 | -28817 | -28856 | -.39122 | .00223 | -.40205 | -.28422 |
| 1.201 | 8.605 | -28746 | -28860 | -.38435 | .00217 | -.40760 | -.28371 |
| 1.201 | 10.896 | -29622 | -29866 | -.37272 | .00208 | -.40777 | -.29376 |
| 1.201 | GRADIENT | .00129 | .00080 | .00156 | .00003 | -.00774 | .00229 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-867 (1A-41)

PAGE 96

LRC 8 TPT 867 1A41 TIP181P201

(R88117) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000

RUN NO. 86/ 0 RN/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|--------|--------|--------|----------|--------|----------|
| .600 | -11.864 | -24816 | -25040 | -49515 | -01104 | -37448 | -23707 |
| .600 | -9.450 | -24747 | -24876 | -47545 | -01141 | -36040 | -23428 |
| .599 | -7.210 | -24752 | -24805 | -45477 | -01131 | -33871 | -23218 |
| .600 | -4.971 | -24616 | -24633 | -43786 | -01106 | -32149 | -23068 |
| .600 | -2.648 | -24395 | -24435 | -42266 | -01087 | -30536 | -22891 |
| .600 | -4.08 | -24150 | -24425 | -41599 | -01124 | -29692 | -22977 |
| .599 | 1.892 | -23735 | -24250 | -40869 | -01110 | -29993 | -23088 |
| .600 | 4.124 | -23295 | -24007 | -40307 | -01124 | -30897 | -23443 |
| .599 | 6.359 | -21745 | -23430 | -39862 | -01126 | -33072 | -24270 |
| .599 | 8.711 | -20489 | -22680 | -38860 | -01129 | -34165 | -24425 |
| .599 | 10.960 | -20284 | -22574 | -38327 | -01108 | -34287 | -24646 |
| | GRADIENT | .00145 | .00063 | .00368 | -0.00003 | .00135 | -0.00041 |

RUN NO. 85/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|--------|--------|--------|--------|--------|--------|
| .799 | -11.393 | -26725 | -26141 | -49246 | -00200 | -35440 | -25956 |
| .801 | -9.070 | -26215 | -25615 | -47583 | -00257 | -34489 | -25251 |
| .800 | -6.902 | -25419 | -24885 | -45566 | -00203 | -33121 | -24469 |
| .799 | -4.723 | -24550 | -24057 | -43559 | -00175 | -31777 | -23694 |
| .798 | -2.466 | -23907 | -23426 | -41837 | -00199 | -30705 | -22933 |
| .799 | -2.260 | -23498 | -23180 | -41375 | -00201 | -29828 | -22404 |
| .799 | 1.893 | -23204 | -22890 | -40829 | -00201 | -30212 | -22167 |
| .798 | 4.093 | -22967 | -22736 | -40181 | -00173 | -32021 | -22426 |
| .799 | 6.353 | -22265 | -22331 | -40252 | -00200 | -33819 | -22383 |
| .800 | 8.541 | -21904 | -22028 | -39911 | -00204 | -34113 | -22312 |
| .799 | 10.756 | -22526 | -22639 | -40043 | -00174 | -35946 | -22458 |
| | GRADIENT | .00176 | .00145 | .00390 | .00000 | .00002 | .00151 |

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

LRC 8 TPT 667 1A41 TTP1S1P201

(R08117) (29 JAN 74)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

BETA = 5.000

RUN NO. 84/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|--------|--------|--------|---------|---------|--------|
| .970 | -11.690 | -31233 | -30993 | -50129 | -00529 | -35439 | -31388 |
| .975 | -9.332 | -31305 | -31019 | -47530 | -00507 | -34141 | -31233 |
| .980 | -7.005 | -30404 | -30180 | -46447 | -00529 | -33024 | -30734 |
| .985 | -4.832 | -29145 | -29012 | -45214 | -00529 | -32399 | -29907 |
| .990 | -2.553 | -28045 | -27886 | -43882 | -00507 | -31834 | -29008 |
| .995 | -.324 | -27484 | -27312 | -43231 | -00529 | -31601 | -28753 |
| .999 | 1.926 | -26799 | -26731 | -42553 | -00529 | -32039 | -28194 |
| .999 | 4.094 | -27054 | -27298 | -41793 | -00530 | -33890 | -28311 |
| .999 | 6.423 | -26036 | -26230 | -42144 | -00507 | -36023 | -27355 |
| .999 | 8.564 | -27076 | -27569 | -41598 | -00529 | -36057 | -28014 |
| .999 | 10.863 | -25658 | -25950 | -41957 | -00507 | -36120 | -28572 |
| | GRADIENT | .00244 | .00206 | .00366 | -.00001 | -.00136 | .00180 |

RUN NO. 85/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|------|----------|--------|--------|--------|---------|---------|--------|
| .979 | -11.925 | -39282 | -41048 | -55376 | -00666 | -40494 | -45471 |
| .981 | -9.654 | -38858 | -39775 | -53614 | -00678 | -40411 | -42838 |
| .979 | -7.226 | -38368 | -38689 | -52250 | -00621 | -40035 | -40276 |
| .980 | -4.928 | -37268 | -37294 | -50935 | -00678 | -39262 | -37963 |
| .980 | -2.653 | -36966 | -36935 | -50479 | -00674 | -39024 | -37228 |
| .981 | -.406 | -36349 | -36421 | -50322 | -00657 | -39875 | -36527 |
| .979 | 1.892 | -36394 | -36060 | -50637 | -00642 | -42379 | -36166 |
| .979 | 4.192 | -35873 | -35739 | -50140 | -00659 | -44007 | -36054 |
| .979 | 6.468 | -36824 | -36453 | -49785 | -00675 | -47098 | -36433 |
| .979 | 8.670 | -36166 | -36045 | -49845 | -00666 | -48924 | -36235 |
| .979 | 10.957 | -35462 | -35396 | -50061 | -00665 | -49226 | -35879 |
| .978 | GRADIENT | .00147 | .00175 | .00063 | -.00003 | -.00564 | .00214 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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LRC 8 TPT 667 IA41 TIP1SIP201

(080117) (29 JAN 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = 5.000

RUN NO. 82/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | CP1 | CP2 | CP3 | CP4 | CP5 | CP6 |
|-------|----------|---------|---------|---------|---------|---------|---------|
| 1.200 | -10.919 | -33728 | -34080 | -45388 | .00259 | -.37006 | -.36824 |
| 1.201 | -9.979 | -33312 | -33925 | -44780 | .00260 | -.36670 | -.35895 |
| 1.202 | -7.557 | -32144 | -32051 | -43341 | .00206 | -.35808 | -.33491 |
| 1.201 | -5.214 | -31046 | -30753 | -42509 | .00225 | -.35000 | -.31630 |
| 1.201 | -2.832 | -20091 | -29797 | -41393 | .00226 | -.33634 | -.30237 |
| 1.201 | -.469 | -29868 | -29542 | -40595 | .00226 | -.34019 | -.28961 |
| 1.201 | 1.915 | -30280 | -30074 | -40727 | .00213 | -.37806 | -.29000 |
| 1.201 | 4.134 | -30029 | -29882 | -40459 | .00209 | -.39336 | -.28919 |
| 1.201 | 6.438 | -30434 | -30188 | -.39664 | .00275 | -.40350 | -.29242 |
| 1.201 | 8.748 | -30619 | -30388 | -.38605 | .00278 | -.41280 | -.29387 |
| 1.201 | 11.084 | -31721 | -.31471 | -.37543 | .00251 | -.40905 | -.30504 |
| 1.201 | GRADIENT | -.00010 | -.00034 | .00115 | -.00003 | -.00898 | .00169 |

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

DATE 12 JUL 74

(000001) (13 MAY 74)

LRC 8 TPT 667 1A41 TIP1S1P20XFR1

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 1290.3000 INCHES
 BREF = 1290.3000 INCHES
 SCALE = .0150 SCALE

BETA = .000 RUDER = .000

5/0 RUN/L = 3.19 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CART |
|----------|---------|--------|---------|---------|---------|---------|---------|---------|
| .599 | -11.936 | .00000 | -.79257 | .32256 | .27083 | .27127 | .07081 | .20046 |
| .601 | -9.688 | .00000 | -.64393 | .26143 | .27298 | .27358 | .07926 | .19433 |
| .603 | -7.369 | .00000 | -.50176 | .20382 | .27282 | .27325 | .08747 | .18578 |
| .605 | -4.984 | .00000 | -.37162 | .15704 | .26963 | .27035 | .09367 | .17668 |
| .599 | -2.819 | .00000 | -.25430 | .11478 | .26770 | .26845 | .09853 | .16991 |
| .603 | -.601 | .00000 | -.14363 | .07415 | .26410 | .26494 | .10042 | .16452 |
| .605 | 1.685 | .00000 | -.02132 | .02917 | .25674 | .25771 | .09833 | .15938 |
| .600 | 3.928 | .00000 | .09737 | -.01328 | .24854 | .24954 | .09276 | .15678 |
| .600 | 6.219 | .00000 | .22170 | -.05633 | .23736 | .23834 | .08313 | .15321 |
| .600 | 8.514 | .00000 | .35141 | -.10401 | .22453 | .22552 | .06984 | .15567 |
| .600 | 10.832 | .00000 | .48825 | -.16191 | .21403 | .21504 | .05862 | .15643 |
| GRADIENT | | .00000 | .05244 | -.01909 | -.00239 | -.00235 | -.00010 | -.00223 |

4/0 RUN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CART |
|----------|---------|--------|---------|---------|---------|---------|---------|---------|
| .800 | -11.449 | .00000 | -.76282 | .30998 | .29821 | .29835 | .10098 | .19737 |
| .801 | -9.218 | .00000 | -.61469 | .24968 | .29511 | .29538 | .10450 | .19088 |
| .800 | -6.950 | .00000 | -.47513 | .19472 | .28976 | .29016 | .10731 | .18285 |
| .800 | -4.828 | .00000 | -.34384 | .14314 | .28632 | .28670 | .11348 | .17322 |
| .800 | -2.575 | .00000 | -.21947 | .09442 | .28133 | .28187 | .11470 | .16718 |
| .800 | -.453 | .00000 | -.10297 | .04895 | .27589 | .27651 | .11733 | .15917 |
| .800 | 1.740 | .00000 | .01870 | -.00183 | .26874 | .26930 | .11504 | .15426 |
| .799 | 3.940 | .00000 | .14319 | -.04779 | .26361 | .26408 | .10799 | .15609 |
| .800 | 6.154 | .00000 | .27695 | -.09717 | .25794 | .25838 | .10252 | .15586 |
| .799 | 8.326 | .00000 | .39791 | -.14109 | .25830 | .25863 | .09832 | .15931 |
| .799 | 10.557 | .00000 | .51767 | -.18807 | .26333 | .26357 | .09936 | .16420 |
| GRADIENT | | .00000 | .03548 | -.02188 | -.00265 | -.00265 | -.00049 | -.00216 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 T1P1S1P2C1F1R1

(0400001) (13 MAY 74)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

| RUN NO. | | 3/ 0 | RN/L = 1.99 | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | |
|----------|---------|--------|-------------|---------------------------------|---------|---------|--------|---------|--|
| MACH | ALPHA | BETA | CN | CLW | CA | CAT | CAFT | CABT | |
| .899 | -11.762 | .00000 | -.81818 | .33432 | .32742 | .32741 | .12013 | .20729 | |
| .901 | -9.449 | .00000 | -.65082 | .26454 | .32276 | .32273 | .12795 | .19478 | |
| .903 | -7.209 | .00000 | -.48897 | .19477 | .31933 | .31942 | .13163 | .18759 | |
| .899 | -4.936 | .00000 | -.33386 | .12993 | .31537 | .31557 | .13503 | .18254 | |
| .900 | -2.704 | .00000 | -.19440 | .07390 | .31012 | .31041 | .13605 | .17436 | |
| .900 | -.455 | .00000 | -.05792 | .01847 | .30254 | .30308 | .13906 | .16402 | |
| .900 | 1.755 | .00000 | .07572 | -.04058 | .29577 | .29633 | .13779 | .15854 | |
| .899 | 3.970 | .00000 | .20215 | -.09245 | .29423 | .29477 | .13474 | .16053 | |
| .899 | 6.217 | .00000 | .31837 | -.12369 | .29763 | .29789 | .13150 | .16640 | |
| .899 | 8.440 | .00000 | .45037 | -.17822 | .29860 | .29873 | .12482 | .17392 | |
| .898 | 10.644 | .00000 | .56005 | -.21580 | .29871 | .29890 | .11957 | .17933 | |
| GRADIENT | | .00000 | .06027 | -.02511 | -.00254 | -.00250 | .00023 | -.00273 | |

| RUN NO. | | 2/ 0 | RN/L = 2.05 | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | |
|----------|---------|--------|-------------|---------------------------------|--------|--------|---------|--------|--|
| MACH | ALPHA | BETA | CN | CLW | CA | CAT | CAFT | CABT | |
| .981 | -12.079 | .00000 | -.87930 | .33217 | .41083 | .41145 | .16559 | .24586 | |
| .979 | -9.747 | .00000 | -.69123 | .27475 | .40557 | .40570 | .17257 | .23312 | |
| .981 | -7.429 | .00000 | -.51911 | .20554 | .40593 | .40595 | .17892 | .22703 | |
| .981 | -5.143 | .00000 | -.36586 | .14704 | .40277 | .40280 | .18219 | .22061 | |
| .979 | -2.801 | .00000 | -.22028 | .09338 | .39468 | .39489 | .18384 | .21105 | |
| .979 | -.558 | .00000 | -.09195 | .05026 | .39425 | .39492 | .18564 | .21129 | |
| .979 | 1.689 | .00000 | .05061 | -.00667 | .39395 | .39479 | .18185 | .21295 | |
| .979 | 3.925 | .00000 | .20255 | -.08424 | .39557 | .39646 | .18021 | .21825 | |
| .978 | 6.219 | .00000 | .34456 | -.13879 | .39109 | .39204 | .17386 | .21818 | |
| .979 | 8.477 | .00000 | .47092 | -.18089 | .39288 | .39430 | .16851 | .22578 | |
| .979 | 10.713 | .00000 | .59379 | -.23290 | .38635 | .38773 | .16145 | .22828 | |
| GRADIENT | | .00000 | .06292 | -.02630 | .00011 | .00020 | -.00057 | .00077 | |

REFERENCE DATA

SREF = 2690.0000 SQ.FT.

LREF = 1290.3000 INCHES

BREF = 1290.3000 INCHES

SCALE = .0150 SCALE

YMRP = 976.0000 INCHES

YMRP = .0000 INCHES

ZMRP = 400.0000 INCHES

BETA = .000

RUDDER = .000

PARAMETRIC DATA

BETA = .000

RUDDER = .000

| RUN NO. | 1/ 0 | RN/L = 2.11 | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | |
|----------|---------|-------------|---------------------------------|---------|---------|---------|---------|---------|
| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
| 1.201 | -12.322 | .00000 | -.92734 | .36131 | .46219 | .46247 | .24929 | .21316 |
| 1.201 | -10.086 | .00000 | -.71247 | .26983 | .46008 | .46026 | .25040 | .20985 |
| 1.201 | -7.685 | .00000 | -.53306 | .20264 | .45542 | .45549 | .25066 | .20463 |
| 1.201 | -5.304 | .00000 | -.37307 | .14392 | .45186 | .45183 | .25221 | .19962 |
| 1.201 | -2.956 | .00000 | -.21231 | .09336 | .44897 | .44908 | .25656 | .19252 |
| 1.201 | -.627 | .00000 | -.06655 | .02985 | .44628 | .44691 | .25651 | .19040 |
| 1.201 | 1.676 | .00000 | .07707 | -.02361 | .44312 | .44399 | .25552 | .18847 |
| 1.201 | 3.992 | .00000 | .21379 | -.08046 | .44255 | .44347 | .25424 | .18923 |
| 1.201 | 6.239 | .00000 | .34136 | -.12821 | .43687 | .43784 | .24917 | .18867 |
| 1.201 | 8.559 | .00000 | .47816 | -.18720 | .42317 | .42394 | .24338 | .18056 |
| 1.201 | 10.852 | .00000 | .59387 | -.21752 | .41714 | .41789 | .23531 | .18258 |
| GRADIENT | | .00000 | .06143 | -.02354 | -.00097 | -.00085 | -.00034 | -.00051 |

| MACH | YAC/L |
|-------|---------|
| .599 | .364022 |
| .800 | .394396 |
| .899 | .416660 |
| .981 | .417948 |
| 1.201 | .383221 |

LRC 8 TPT 667 IA41 T1P1S1P201FR1

(080002) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

| RUN NO. | | 10/ 0 | RN/L = 3.20 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|---------|---------|-------------|---------------------------------|---------|
| MACH | BETA | CY | CYN | CBL | CA |
| .600 | -10.939 | .42881 | -.17631 | .06034 | .27720 |
| .601 | -8.733 | .34768 | -.14863 | .05142 | .27617 |
| .600 | -6.555 | .26499 | -.11608 | .04021 | .27355 |
| .600 | -4.369 | .17913 | -.08035 | .02715 | .27113 |
| .600 | -2.190 | .09265 | -.04182 | .01350 | .26789 |
| .600 | -.029 | .00829 | -.00310 | .00143 | .26459 |
| .600 | 2.148 | -.07409 | .03461 | -.00955 | .26673 |
| .599 | 4.321 | -.16011 | .07418 | -.02276 | .27070 |
| .600 | 6.507 | -.24653 | .11105 | -.03563 | .27462 |
| .600 | 8.705 | -.33699 | .14777 | -.04811 | .27717 |
| .600 | 10.901 | -.42050 | .17854 | -.05788 | .27872 |
| GRADIENT | | -.03892 | .01775 | -.00566 | -.00009 |
| | | | | | -.00007 |
| | | | | | .00156 |
| | | | | | -.00163 |

| RUN NO. | | 9/ 0 | RN/L = 1.91 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|---------|---------|-------------|---------------------------------|---------|
| MACH | BETA | CY | CYN | CBL | CA |
| .799 | -10.717 | .45425 | -.19543 | .06546 | .30026 |
| .800 | -8.555 | .36718 | -.16354 | .05402 | .29748 |
| .800 | -6.414 | .28318 | -.13057 | .04301 | .29213 |
| .799 | -4.261 | .19298 | -.09212 | .03011 | .28606 |
| .799 | -2.148 | .10178 | -.04879 | .01524 | .28134 |
| .800 | -.029 | .01301 | -.00623 | .00228 | .27666 |
| .799 | 2.112 | -.07807 | .03796 | -.01067 | .27987 |
| .799 | 4.246 | -.17121 | .08309 | -.02532 | .28628 |
| .799 | 6.385 | -.26419 | .12599 | -.03916 | .29254 |
| .799 | 8.518 | -.35006 | .16000 | -.04959 | .29728 |
| .798 | 10.685 | -.44453 | .19742 | -.06217 | .29955 |
| GRADIENT | | -.04261 | .02051 | -.00642 | -.00005 |
| | | | | | -.00003 |
| | | | | | .00146 |
| | | | | | -.00149 |



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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 T1P1S1P20UFRI

(080002) (13 MAY 74)

REFERENCE DATA

REF = 2690.0000 SQ.FT. WRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YWRP = .0000 INCHES
BREF = 1290.3000 INCHES ZWRP = 400.0000 INCHES
SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 8/0 RV/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|--------|--------|--------|---------|
| .920 | -10.600 | .50209 | -.22771 | .07492 | .34232 | .34288 | .13278 | .21010 |
| .920 | -8.686 | .40641 | -.19076 | .06189 | .33738 | .33786 | .13598 | .20187 |
| .920 | -6.501 | .31358 | -.15316 | .04908 | .32860 | .32887 | .13828 | .19059 |
| .920 | -4.346 | .22083 | -.11274 | .03562 | .31898 | .31923 | .13824 | .18099 |
| .920 | -2.185 | .11994 | -.06205 | .01900 | .31097 | .31114 | .13804 | .17310 |
| .899 | -.008 | .01033 | -.00475 | .00270 | .30356 | .30403 | .13965 | .16439 |
| .899 | 2.126 | -.08927 | .04696 | -.01235 | .30994 | .31001 | .14224 | .16777 |
| .920 | 4.298 | -.19416 | .10112 | -.02933 | .31988 | .31984 | .14985 | .16999 |
| .899 | 6.476 | -.29362 | .14759 | -.04415 | .32769 | .32760 | .15501 | .17259 |
| .899 | 8.642 | -.39140 | .18991 | -.05786 | .33652 | .33643 | .15969 | .17674 |
| .899 | 10.842 | -.48888 | .22668 | -.06977 | .34230 | .34212 | .15895 | .18317 |
| GRADIENT | | -.04811 | .02485 | -.00747 | .00003 | .00000 | .00127 | -.00127 |

RUN NO. 7/0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .981 | -11.039 | .54062 | -.24433 | .08829 | .43202 | .43215 | .17446 | .25770 |
| .981 | -8.770 | .42717 | -.20098 | .07263 | .42717 | .42750 | .17678 | .25072 |
| .981 | -6.580 | .32780 | -.16000 | .05760 | .42238 | .42272 | .18078 | .24195 |
| .981 | -4.378 | .22581 | -.11384 | .04019 | .41486 | .41322 | .18256 | .23265 |
| .980 | -2.185 | .12068 | -.06191 | .02131 | .40438 | .40485 | .18286 | .22205 |
| .980 | -.001 | .01032 | -.00403 | .00242 | .39747 | .39809 | .18058 | .21751 |
| .980 | 2.155 | -.09761 | .05316 | -.01537 | .40081 | .40104 | .18696 | .21408 |
| .979 | 4.338 | -.20479 | .10757 | -.03380 | .41043 | .41030 | .19735 | .21295 |
| .979 | 6.534 | -.31029 | .15596 | -.05142 | .42074 | .42054 | .20391 | .21663 |
| .978 | 8.726 | -.41105 | .19752 | -.06652 | .42601 | .42575 | .20650 | .21975 |
| .978 | 10.959 | -.51595 | .24014 | -.08102 | .43062 | .43023 | .20583 | .22440 |
| GRADIENT | | -.04956 | .02561 | -.00848 | -.00057 | -.00063 | .00155 | -.00218 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 TIP1S1P200FR1

060002 (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 490.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

| RUN NO. | 6 / 0 | RN/L = 2.11 | GRADIENT INTERVAL = | -5.00/ 5.00 | | | |
|----------|---------|-------------|---------------------|-------------|---------|--------|---------|
| BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
| -8.940 | .40082 | -.16583 | .06920 | .46371 | .46374 | .25422 | .20982 |
| -6.679 | .30743 | -.13458 | .05496 | .46108 | .46110 | .25627 | .20483 |
| -4.444 | .20902 | -.09822 | .03786 | .45353 | .45357 | .25354 | .20003 |
| -2.239 | .11019 | -.05203 | .02001 | .44525 | .44546 | .25215 | .19331 |
| -.025 | .01114 | -.00483 | .00245 | .44257 | .44335 | .25513 | .18822 |
| 2.176 | -.08988 | .04533 | -.01492 | .44383 | .44396 | .26174 | .18222 |
| 4.387 | -.18974 | .09178 | -.03247 | .45108 | .45089 | .27076 | .18013 |
| 6.615 | -.28783 | .13155 | -.04901 | .45658 | .45640 | .27637 | .18003 |
| 8.857 | -.38824 | .16726 | -.06437 | .46053 | .46037 | .27562 | .18476 |
| 11.144 | -.49048 | .20225 | -.07889 | .46073 | .46055 | .27088 | .18968 |
| GRADIENT | -.04519 | .02144 | -.00795 | -.00029 | -.00031 | .00199 | -.00230 |

| MACH | YAC/L |
|-------|---------|
| .600 | .456081 |
| .799 | .481345 |
| .900 | .516487 |
| .981 | .519805 |
| 1.202 | .474502 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 T1P1S1P201

(B98003) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0700 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0130 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 15/ 0 RN/L = 3.19 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .596 | -10.743 | .41353 | -.16766 | .05086 | .27287 | .27376 | .08351 | .19025 |
| .599 | -8.711 | .34151 | -.14504 | .05069 | .27120 | .27182 | .08644 | .18537 |
| .594 | -6.479 | .26084 | -.11368 | .03987 | .26834 | .26886 | .08850 | .18037 |
| .596 | -4.382 | .17545 | -.07750 | .02692 | .26660 | .26725 | .09645 | .17080 |
| .595 | -2.153 | .08842 | -.03886 | .01310 | .26442 | .26490 | .09984 | .16506 |
| .595 | .084 | .00667 | -.00217 | .00133 | .26015 | .26110 | .10182 | .15929 |
| .595 | 2.124 | -.07852 | .03684 | -.01042 | .26188 | .26301 | .10808 | .15493 |
| .598 | 4.375 | -.16599 | .07576 | -.02386 | .26535 | .26614 | .11158 | .15456 |
| .595 | 6.540 | -.24815 | .10977 | -.03610 | .26747 | .26791 | .11140 | .15652 |
| .596 | 8.718 | -.33148 | .14460 | -.04792 | .26936 | .26948 | .10954 | .15994 |
| .595 | 10.670 | -.41182 | .17294 | -.05738 | .27170 | .27170 | .10831 | .16339 |
| GRADIENT | | -.03189 | .01752 | -.00574 | -.00024 | -.00019 | .00176 | -.00196 |

RUN NO. 14/ 11 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .794 | -10.731 | .44489 | -.18960 | .06413 | .29377 | .29413 | .10002 | .19412 |
| .794 | -8.567 | .36240 | -.15978 | .05353 | .29118 | .29154 | .10369 | .18785 |
| .795 | -6.396 | .27878 | -.12808 | .04266 | .28696 | .28729 | .10608 | .18120 |
| .794 | -4.308 | .19222 | -.09164 | .03017 | .28081 | .28108 | .10870 | .17238 |
| .794 | -2.144 | .10037 | -.04832 | .01518 | .27629 | .27661 | .11182 | .16479 |
| .794 | -.025 | .01013 | -.00487 | .00211 | .27149 | .27239 | .11655 | .15584 |
| .794 | 2.118 | -.08346 | .04097 | -.01126 | .27389 | .27469 | .12257 | .15213 |
| .795 | 4.240 | -.17575 | .08547 | -.02543 | .27794 | .27811 | .12532 | .15279 |
| .794 | 6.365 | -.26493 | .12562 | -.03894 | .28250 | .28240 | .12771 | .15470 |
| .794 | 8.531 | -.35150 | .15866 | -.04967 | .28726 | .28714 | .12897 | .15818 |
| .793 | 10.643 | -.43628 | .19133 | -.06113 | .29073 | .29054 | .12748 | .16306 |
| GRADIENT | | -.04306 | .02076 | -.00644 | -.00038 | -.00037 | .00206 | -.00243 |

(060003) (13 MAY 74)

LRC 8 TPT 667 1A41 T1P1S1P201

REFERENCE DATA

SHEP = 2690.0000 SQ.FT.
 LREF = 1290.3000 INCHES
 BREF = 1290.3000 INCHES
 SCALE = .5150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

| RUN NO. | | 13/ 0 | RN/L = 2.01 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|---------|---------|-------------|---------------------------------|---------|
| MACH | BETA | CY | CYN | CBL | CA |
| .893 | -10.776 | .48724 | -.21819 | .07179 | .33155 |
| .893 | -8.607 | .39384 | -.18446 | .06002 | .32651 |
| .894 | -6.470 | .30681 | -.14867 | .04775 | .31985 |
| .894 | -4.347 | .21476 | -.10858 | .03411 | .31084 |
| .894 | -2.167 | .11424 | -.05865 | .01801 | .30333 |
| .894 | .025 | .00809 | -.00317 | .00213 | .30007 |
| .893 | 2.153 | -.09444 | .04963 | -.01301 | .30369 |
| .893 | 4.349 | -.20134 | .10415 | -.02962 | .30758 |
| .893 | 6.545 | -.29770 | .14774 | -.04406 | .31328 |
| .893 | 8.654 | -.39151 | .18765 | -.05762 | .32328 |
| .894 | 10.859 | -.48463 | .22157 | -.06883 | .33050 |
| GRADIENT | | -.04794 | .02458 | -.00730 | -.00026 |
| | | | | | -.00026 |

| RUN NO. | | 12/ 0 | RN/L = 2.05 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|---------|---------|-------------|---------------------------------|---------|
| MACH | BETA | CY | CYN | CBL | CA |
| .980 | -11.017 | .52640 | -.23539 | .08665 | .42691 |
| .981 | -8.780 | .42182 | -.19552 | .07157 | .42387 |
| .981 | -6.596 | .32229 | -.15532 | .05632 | .41472 |
| .980 | -4.396 | .22140 | -.10983 | .03901 | .40508 |
| .980 | -2.212 | .11604 | -.05769 | .02033 | .39863 |
| .979 | -.030 | .00776 | -.00191 | .00210 | .39506 |
| .979 | 2.128 | -.10000 | .05458 | -.01560 | .39709 |
| .980 | 4.347 | -.20825 | .10633 | -.03378 | .40216 |
| .979 | 6.530 | -.30977 | .15372 | -.05113 | .41179 |
| .978 | 8.710 | -.40875 | .19380 | -.06636 | .41661 |
| .978 | 10.931 | -.51271 | .23594 | -.08092 | .42029 |
| GRADIENT | | -.04927 | .02513 | -.00832 | -.00034 |
| | | | | | -.00034 |

| RUN NO. | | 11/ 0 | RN/L = 2.11 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|---------|--------|---------|-------------|---------------------------------|---------|
| MACH | BETA | CY | CYN | CBL | CA |
| 1.200 | -8.922 | .39109 | -.15786 | .06735 | .45916 |
| 1.201 | -6.681 | .29802 | -.12691 | .05347 | .45465 |
| 1.201 | -4.437 | .20069 | -.08958 | .03650 | .44784 |
| 1.201 | -2.233 | .10264 | -.04600 | .01867 | .44177 |
| 1.201 | -.030 | .00741 | -.00215 | .00202 | .44011 |
| 1.201 | 2.167 | -.08846 | .04382 | -.01443 | .43989 |
| 1.201 | 4.376 | -.18498 | .08700 | -.03140 | .44328 |
| 1.201 | 6.607 | -.28383 | .12672 | -.04805 | .44813 |
| 1.200 | 8.859 | -.38262 | .16087 | -.06327 | .45338 |
| 1.201 | | -.04370 | .02011 | -.00767 | -.00050 |
| | | | | | -.00050 |

| CABT | CAFT | CAT | CBL | CA | CYN | CY | BETA | MACH |
|---------|--------|---------|---------|---------|---------|---------|---------|------|
| .25676 | .17039 | .42716 | .08665 | .42691 | -.23539 | .52640 | -11.017 | .980 |
| .25122 | .17289 | .42411 | .07157 | .42387 | -.19552 | .42182 | -8.780 | .981 |
| .24143 | .17361 | .41504 | .05632 | .41472 | -.15532 | .32229 | -6.596 | .981 |
| .23081 | .17447 | .40528 | .03901 | .40508 | -.10983 | .22140 | -4.396 | .980 |
| .22235 | .17650 | .39905 | .02033 | .39863 | -.05769 | .11604 | -2.212 | .980 |
| .21700 | .17920 | .39620 | .00210 | .39506 | -.00191 | .00776 | -.030 | .979 |
| .21064 | .18709 | .39773 | -.01560 | .39709 | .05458 | -.10000 | 2.128 | .979 |
| .21043 | .19157 | .40200 | -.03378 | .40216 | .10633 | -.20825 | 4.347 | .980 |
| .21266 | .19890 | .41156 | -.05113 | .41179 | .15372 | -.30977 | 6.530 | .979 |
| .21688 | .19945 | .41633 | -.06636 | .41661 | .19380 | -.40875 | 8.710 | .978 |
| .22101 | .19891 | .41992 | -.08092 | .42029 | .23594 | -.51271 | 10.931 | .978 |
| -.00241 | .00205 | -.00036 | -.00832 | -.00034 | .02513 | -.04927 | | |

| CABT | CAFT | CAT | CBL | CA | CYN | CY | BETA | MACH |
|---------|--------|---------|---------|---------|---------|---------|--------|-------|
| .20901 | .25018 | .45919 | .06735 | .45916 | -.15786 | .39109 | -8.922 | 1.200 |
| .20414 | .25060 | .45474 | .05347 | .45465 | -.12691 | .29802 | -6.681 | 1.201 |
| .19831 | .24967 | .44817 | .03650 | .44784 | -.08958 | .20069 | -4.437 | 1.201 |
| .19482 | .24767 | .44229 | .01867 | .44177 | -.04600 | .10264 | -2.233 | 1.201 |
| .19221 | .24904 | .44125 | .00202 | .44011 | -.00215 | .00741 | -.030 | 1.201 |
| .18461 | .25569 | .44030 | -.01443 | .43989 | .04382 | -.08846 | 2.167 | 1.201 |
| .17864 | .26445 | .44309 | -.03140 | .44328 | .08700 | -.18498 | 4.376 | 1.201 |
| .17808 | .26975 | .44783 | -.04805 | .44813 | .12672 | -.28383 | 6.607 | 1.200 |
| .18195 | .27107 | .45302 | -.06327 | .45338 | .16087 | -.38262 | 8.859 | 1.201 |
| -.00224 | .00169 | -.00055 | -.00767 | -.00050 | .02011 | -.04370 | | |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-867 (1A-41)

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LRC 8 TPT 667 1A41 TIP1S1P201

080003) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

| MACH | YAC/L |
|-------|---------|
| .596 | .449259 |
| .794 | .482190 |
| .893 | .512725 |
| .980 | .510141 |
| 1.200 | .460264 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

PAGE 108

LRC 8 TPT 667 1A41 TIP131P201

CS800044 (13 MAY 74)

REFERENCE DATA

SEEF = 2690.0000 SQ.FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 26/ 0 RVL = 3.10 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .599 | -12.002 | -.01414 | -.82844 | .34672 | .26531 | .26390 | .07684 | .18906 |
| .600 | -9.504 | -.02238 | -.67244 | .28336 | .26685 | .26754 | .08301 | .18453 |
| .600 | -7.305 | -.01393 | -.53128 | .22772 | .26619 | .26694 | .08701 | .17993 |
| .599 | -4.972 | -.01208 | -.39628 | .17340 | .26357 | .26443 | .09319 | .17124 |
| .599 | -2.787 | -.00145 | -.27695 | .13125 | .26186 | .26281 | .09892 | .16389 |
| .599 | -.496 | .00636 | -.15871 | .08704 | .25946 | .26058 | .10195 | .15862 |
| .599 | 1.642 | .02034 | -.03183 | .03861 | .25420 | .25549 | .10227 | .15522 |
| .600 | 4.094 | .02264 | .09320 | -.00716 | .24668 | .24827 | .09510 | .15317 |
| .598 | 6.340 | .01973 | .22018 | -.05095 | .23509 | .23697 | .08465 | .15232 |
| .600 | 8.613 | .01733 | .34620 | -.09920 | .22423 | .22613 | .07312 | .15301 |
| .600 | 10.683 | .01255 | .48222 | -.15603 | .21202 | .21393 | .06135 | .15257 |
| GRADIENT | | .00401 | .05378 | -.02011 | -.00182 | -.00174 | .00022 | -.00197 |

RUN NO. 25/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .799 | -11.301 | -.00777 | -.78405 | .32584 | .29361 | .29394 | .10234 | .19160 |
| .800 | -9.051 | -.00675 | -.63186 | .26502 | .29021 | .29063 | .10301 | .18761 |
| .800 | -6.958 | -.00937 | -.50055 | .21324 | .28505 | .28549 | .10458 | .18091 |
| .799 | -4.750 | -.00757 | -.36580 | .15990 | .28040 | .28091 | .10914 | .17177 |
| .799 | -2.577 | -.00320 | -.24159 | .11117 | .27622 | .27689 | .11254 | .16395 |
| .799 | -.344 | .00515 | -.11703 | .06218 | .27103 | .27214 | .11569 | .15644 |
| .799 | 1.805 | .01327 | .00330 | .01163 | .26463 | .26601 | .11411 | .15190 |
| .799 | 4.027 | .01770 | .13027 | -.03561 | .26075 | .26231 | .11011 | .15220 |
| .799 | 6.273 | .01509 | .26519 | -.08603 | .25468 | .25643 | .10371 | .15272 |
| .799 | 8.390 | .01187 | .38288 | -.12813 | .25632 | .25810 | .10086 | .15724 |
| .798 | 10.564 | .00971 | .50514 | -.17655 | .25957 | .26139 | .10096 | .16044 |
| GRADIENT | | .00305 | .05639 | -.02236 | -.00232 | -.00219 | .00014 | -.00233 |

LRC 0 TPT 667 1A41 T1P1S1P201

(888004) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BRP = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 24/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .899 | -11.633 | -.00839 | -.83609 | .34907 | .32745 | .32776 | .12245 | .20531 |
| .901 | -9.351 | -.01006 | -.68272 | .27382 | .32542 | .32578 | .12746 | .19832 |
| .899 | -7.147 | -.00793 | -.50167 | .20489 | .31882 | .31948 | .12883 | .19064 |
| .899 | -4.847 | -.00530 | -.34991 | .14253 | .31347 | .31419 | .13245 | .18174 |
| .900 | -2.650 | .00051 | -.20581 | .08333 | .30869 | .30949 | .13592 | .17357 |
| .900 | -.369 | .00633 | -.06571 | .02567 | .30291 | .30387 | .13729 | .16659 |
| .899 | 1.846 | .01644 | .07314 | -.03762 | .29487 | .29595 | .13681 | .15914 |
| .899 | 4.083 | .02293 | .20066 | -.08976 | .29391 | .29515 | .13520 | .15995 |
| .899 | 6.298 | .01681 | .31565 | -.12075 | .29596 | .29731 | .13344 | .16387 |
| .899 | 8.530 | .01186 | .44006 | -.16702 | .29825 | .29927 | .12742 | .17185 |
| .899 | 10.746 | .01242 | .55559 | -.20670 | .29948 | .30033 | .12127 | .17907 |
| GRADIENT | | .00324 | .06173 | -.02619 | -.00237 | -.00231 | .00029 | -.00259 |

RUN NO. 23/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|--------|--------|---------|--------|
| .980 | -12.000 | -.00020 | -.89682 | .36455 | .41122 | .41149 | .16339 | .24810 |
| .980 | -9.612 | .00007 | -.69927 | .28350 | .40609 | .40636 | .17053 | .23583 |
| .981 | -7.309 | -.00326 | -.52641 | .21340 | .40288 | .40340 | .17593 | .22747 |
| .980 | -4.966 | -.00552 | -.36677 | .15250 | .39731 | .39813 | .17683 | .21930 |
| .980 | -2.781 | -.00151 | -.23255 | .10305 | .39416 | .39520 | .18182 | .21338 |
| .980 | -.473 | .00893 | -.09674 | .05714 | .39390 | .39516 | .18025 | .21490 |
| .979 | 1.825 | .02031 | .04842 | -.00219 | .39323 | .39434 | .17890 | .21544 |
| .980 | 4.032 | .02471 | .19469 | -.07604 | .39952 | .40044 | .17969 | .22075 |
| .980 | 6.340 | .01817 | .33934 | -.13200 | .39534 | .39628 | .17294 | .22334 |
| .980 | 8.557 | .01306 | .47084 | -.17775 | .39309 | .39446 | .16676 | .22770 |
| .980 | 10.810 | .00809 | .59162 | -.22810 | .38856 | .39028 | .15876 | .23152 |
| GRADIENT | | .00365 | .06211 | -.02487 | .00015 | .00017 | -.00006 | .00022 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 0 TPT 667 1A41 T1P1S1P2Q1

(080004) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 22/ 0 RVL = 2.10 GRADIENT INTERVAL = -5.00/ 5.00

| | WACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.200 | -12.356 | .00659 | -.93438 | .36926 | .45772 | .45772 | .45772 | .24012 | .21760 |
| 1.201 | -9.982 | .00221 | -.72464 | .27958 | .45404 | .45400 | .45400 | .23982 | .21418 |
| 1.201 | -7.595 | -.00151 | -.54503 | .21082 | .45005 | .44998 | .44998 | .24179 | .20819 |
| 1.201 | -5.183 | -.00598 | -.38497 | .15203 | .44637 | .44645 | .44645 | .24609 | .20036 |
| 1.200 | -2.934 | -.00407 | -.22782 | .09210 | .44181 | .44256 | .44256 | .24771 | .19485 |
| 1.200 | -.522 | .00567 | -.06746 | .03100 | .44086 | .44205 | .44205 | .25034 | .19171 |
| 1.200 | 1.809 | .02038 | .07664 | -.02280 | .43994 | .44093 | .44093 | .24875 | .19219 |
| 1.200 | 4.096 | .02211 | .21007 | -.07884 | .43970 | .44077 | .44077 | .24752 | .19324 |
| 1.201 | 6.402 | .01925 | .35121 | -.13261 | .43243 | .43347 | .43347 | .24178 | .19169 |
| 1.201 | 8.632 | .01090 | .47919 | -.18776 | .42092 | .42198 | .42198 | .25346 | .18851 |
| 1.201 | 10.945 | -.00401 | .59447 | -.21729 | .41594 | .41684 | .41684 | .22750 | .18934 |
| 1.200 | GRADIENT | .00399 | .06226 | -.02420 | -.00031 | -.00028 | -.00028 | -.00009 | -.00019 |

WACH XAC/L
.599 .373980
.799 .396540
.899 .424264
.980 .400456
1.200 .388599

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

PAGE 111

LRC 8 TPT 667 IA41 T1P1S1P201

(080005) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 21/ 0 RNVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|----------|---------|---------|--------|--------|--------|---------|
| .598 | -10.896 | .38681 | -.13761 | .04616 | .27711 | .27817 | .08790 | .19027 |
| .599 | -8.769 | .30920 | -.11139 | .03674 | .27786 | .27849 | .09214 | .18636 |
| .599 | -6.511 | .22612 | -.07909 | .02319 | .27859 | .27907 | .09652 | .18255 |
| .599 | -4.352 | .14239 | -.04357 | .01256 | .27818 | .27874 | .10466 | .17407 |
| .598 | -2.181 | .05671 | -.00657 | -.00057 | .27580 | .27604 | .10794 | .16810 |
| .599 | -.006 | -.02361 | .02936 | -.01195 | .27340 | .27411 | .11161 | .16249 |
| .599 | 2.171 | -.11230 | .07061 | -.02448 | .27486 | .27569 | .11594 | .15975 |
| .598 | 4.335 | -.20112 | .11272 | -.03933 | .27925 | .27967 | .11901 | .16065 |
| .600 | 6.486 | -.28731 | .15101 | -.05319 | .28270 | .28273 | .12109 | .16164 |
| .599 | 8.760 | -.37202 | .18242 | -.06356 | .28359 | .28340 | .11859 | .16481 |
| .598 | 10.891 | -.44371 | .20163 | -.06904 | .28713 | .28707 | .11637 | .17070 |
| GRADIENT | | -.173940 | .01794 | -.00598 | .00005 | .00007 | .00169 | -.00162 |

RUN NO. 20/ 0 RNVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|--------|--------|--------|---------|
| .800 | -10.751 | .42549 | -.16814 | .05514 | .29865 | .29902 | .10369 | .19533 |
| .801 | -8.573 | .34109 | -.13759 | .04418 | .29871 | .29910 | .10886 | .19024 |
| .800 | -6.365 | .24989 | -.09953 | .03057 | .29681 | .29712 | .11355 | .18358 |
| .800 | -4.309 | .16.97 | -.06057 | .01677 | .29375 | .29398 | .11706 | .17692 |
| .801 | -2.124 | .07024 | -.01757 | .00220 | .28964 | .28976 | .12007 | .16969 |
| .800 | -.034 | -.01988 | .02828 | -.01105 | .28545 | .28595 | .12514 | .16081 |
| .800 | 2.099 | -.11558 | .07435 | -.02534 | .28828 | .28882 | .13039 | .15844 |
| .800 | 4.268 | -.21481 | .12385 | -.04122 | .29457 | .29448 | .13624 | .15824 |
| .800 | 6.365 | -.30465 | .16442 | -.05465 | .30017 | .29988 | .13903 | .16085 |
| .800 | 8.528 | -.38536 | .19310 | -.06387 | .30363 | .30326 | .13999 | .16327 |
| .799 | 10.729 | -.47144 | .22417 | -.07440 | .30790 | .30747 | .13832 | .16915 |
| GRADIENT | | -.04394 | .02155 | -.00671 | .00002 | .00000 | .00228 | -.00227 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 T1P1S1P201

(B40005) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 19/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|--------|--------|--------|---------|
| .900 | -10.894 | .47613 | -.20279 | .06551 | .33824 | .33658 | .12663 | .21195 |
| .901 | -8.700 | .38103 | -.16642 | .03250 | .33644 | .33678 | .13245 | .20432 |
| .901 | -6.471 | .28267 | -.12455 | .03744 | .33082 | .33094 | .13542 | .19552 |
| .903 | -4.286 | .18418 | -.07797 | .02094 | .32464 | .32490 | .13761 | .18709 |
| .900 | -2.187 | .08398 | -.02737 | .00444 | .31805 | .31812 | .13969 | .17843 |
| .900 | -.016 | -.02367 | .03005 | -.01175 | .31567 | .31639 | .14643 | .16996 |
| .900 | 2.146 | -.13067 | .08678 | -.02843 | .32074 | .32099 | .15233 | .16866 |
| .900 | 4.365 | -.24070 | .14401 | -.04580 | .32659 | .32646 | .15815 | .17031 |
| .899 | 6.515 | -.33428 | .18706 | -.06043 | .33547 | .33513 | .16166 | .17348 |
| .899 | 8.638 | -.42462 | .22244 | -.07222 | .34320 | .34267 | .16361 | .17886 |
| .900 | 10.815 | -.51569 | .25378 | -.08241 | .35050 | .35004 | .16334 | .18670 |
| GRADIENT | | -.04920 | .02580 | -.00769 | .00032 | .00029 | .00228 | -.00199 |

RUN NO. 17/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|--------|--------|--------|---------|
| .980 | -11.020 | .50478 | -.20967 | .07524 | .42978 | .43004 | .17593 | .25611 |
| .981 | -8.771 | .39598 | -.16818 | .05930 | .42860 | .42895 | .17836 | .25059 |
| .978 | -6.617 | .29375 | -.12494 | .04257 | .41900 | .41918 | .17996 | .23922 |
| .979 | -4.375 | .18929 | -.07664 | .02404 | .41581 | .41396 | .18240 | .23155 |
| .979 | -2.224 | .08440 | -.02402 | .00560 | .41091 | .41140 | .18502 | .22638 |
| .979 | -.029 | -.02625 | .03328 | -.01347 | .40765 | .40849 | .18780 | .22068 |
| .978 | 2.118 | -.13410 | .09025 | -.03153 | .41078 | .41090 | .19557 | .21534 |
| .978 | 4.357 | -.24485 | .14651 | -.05046 | .41776 | .41750 | .20281 | .21468 |
| .980 | 6.541 | -.34885 | .19421 | -.06869 | .43025 | .42967 | .21114 | .21872 |
| .978 | 8.742 | -.44585 | .23205 | -.08285 | .43497 | .43451 | .21172 | .22279 |
| .979 | 10.932 | -.54576 | .27064 | -.09590 | .43858 | .43833 | .21052 | .22780 |
| GRADIENT | | -.04984 | .02569 | -.00854 | .00036 | .00031 | .00236 | -.00205 |

LRC 8 TPT 667 1A41 T1P1S1P201

(B08005) (13 MAY 74)

REFERENCE DATA

| | | | | | |
|---------|-----------|--------|--------|----------|--------|
| SEEP = | 2690.0000 | SA.FT. | YMRP = | 976.0000 | INCHES |
| LEAF = | 1290.3000 | INCHES | YMRP = | .0000 | INCHES |
| BREP = | 1290.3000 | INCHES | ZMRP = | 400.0000 | INCHES |
| SCALE = | .0190 | SCALE | | | |

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 18/0 RM/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|--------|--------|--------|---------|
| 1.201 | -8.934 | .37318 | -.1389 | .05897 | .46206 | .46209 | .25254 | .20954 |
| 1.201 | -6.636 | .27346 | -.10264 | .04270 | .45882 | .45862 | .25384 | .20478 |
| 1.201 | -4.439 | .17751 | -.06485 | .02551 | .45292 | .45329 | .25315 | .20013 |
| 1.201 | -2.163 | .07698 | -.01923 | .00677 | .44733 | .44787 | .25105 | .19682 |
| 1.201 | -.032 | -.01863 | .02569 | -.01037 | .44769 | .44858 | .25431 | .19427 |
| 1.201 | 2.174 | -.11496 | .07229 | -.02709 | .44915 | .44920 | .26279 | .18641 |
| 1.201 | 4.399 | -.21546 | .11799 | -.04514 | .45292 | .45272 | .26932 | .18320 |
| 1.201 | 6.572 | -.31235 | .15793 | -.06199 | .45793 | .45763 | .27706 | .18057 |
| 1.200 | 8.912 | -.41532 | .19403 | -.07825 | .46302 | .46263 | .27779 | .18484 |
| 1.201 | 11.164 | -.51453 | .22564 | -.09205 | .46656 | .46628 | .27682 | .18946 |
| GRADIENT | -.04442 | .02077 | -.00796 | .00008 | .00001 | .00001 | .00202 | -.00201 |

| WACH | YAC/L |
|-------|---------|
| .598 | .455308 |
| .800 | .490486 |
| .900 | .524361 |
| .980 | .515435 |
| 1.201 | .467514 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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LRC 8 TPT 667 IA41 74P6SIP201

(000006) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0200 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

| RUN NO. 31/ 0 | | RN/L = 3.18 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|---------------|---------|-------------|---------|---------------------------------|---------|---------|--------|---------|
| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
| .599 | -11.753 | -.01532 | -.80187 | .33880 | .26324 | .26366 | .07711 | .18875 |
| .599 | -9.371 | -.01607 | -.65672 | .27952 | .26629 | .26702 | .08206 | .18495 |
| .599 | -7.172 | -.01168 | -.52044 | .22342 | .26602 | .26680 | .08703 | .17977 |
| .601 | -4.856 | -.00558 | -.38868 | .17385 | .26324 | .26410 | .09360 | .17050 |
| .599 | -2.615 | -.00227 | -.26667 | .12761 | .26258 | .26351 | .10028 | .16324 |
| .599 | -.378 | .01149 | -.14915 | .08282 | .25936 | .26049 | .10140 | .15909 |
| .599 | 1.945 | .02130 | -.02380 | .03422 | .25358 | .25486 | .10027 | .15459 |
| .500 | 4.318 | .02676 | .10069 | -.01081 | .24579 | .24739 | .09424 | .15315 |
| .599 | 6.458 | .02284 | .22132 | -.05316 | .23320 | .23708 | .08453 | .15255 |
| .600 | 8.707 | .01926 | .35149 | -.10372 | .22413 | .22601 | .07325 | .15277 |
| .601 | 10.968 | .01352 | .49357 | -.16391 | .21166 | .21350 | .06064 | .15286 |
| GRADIENT | | .00385 | .05332 | -.02020 | -.00192 | -.00184 | .00004 | -.00189 |

| RUN NO. 30/ 0 | | RN/L = 1.89 | | GRADIENT INTERVAL = -5.00/ 5.00 | | | | |
|---------------|---------|-------------|---------|---------------------------------|---------|---------|---------|---------|
| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
| .799 | -11.433 | -.00616 | -.78360 | .32856 | .29297 | .29327 | .10176 | .19151 |
| .800 | -9.037 | -.00576 | -.62541 | .26436 | .28918 | .28961 | .10259 | .18692 |
| .799 | -6.790 | -.00646 | -.48536 | .20828 | .28330 | .28379 | .10502 | .17877 |
| .799 | -4.695 | -.00748 | -.35769 | .15741 | .28003 | .28053 | .11052 | .17001 |
| .800 | -2.489 | -.00201 | -.22870 | .10580 | .27540 | .27607 | .11442 | .16165 |
| .799 | -.256 | .00591 | -.10985 | .05837 | .27091 | .27205 | .11696 | .15509 |
| .799 | 1.900 | .01736 | .00833 | .00813 | .26437 | .26573 | .11428 | .15146 |
| .799 | 4.195 | .01878 | .14210 | -.04037 | .26033 | .26189 | .10917 | .15273 |
| .799 | 6.359 | .01433 | .27091 | -.08918 | .25468 | .25647 | .10359 | .15289 |
| .799 | 8.511 | .01061 | .39497 | -.13607 | .25749 | .25921 | .10306 | .15615 |
| .799 | 10.676 | .00988 | .51098 | -.18172 | .26041 | .26220 | .10139 | .16082 |
| GRADIENT | | .00324 | .05578 | -.02225 | -.00227 | -.00215 | -.00013 | -.00201 |

LRC 8 TPT 667 1A41 T4P6S1P201

(B00006) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 1290.3000 INCHES
BREF = 1290.3500 INCHES
SCALE = .0150 SCALE

XMRP = 976.0000 INCHES
YMRP = .0000 INCHES
ZMRP = 430.0000 INCHES

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 2910 RVL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|------|---------|---------|---------|---------|---------|---------|--------|---------|
| .900 | -11.546 | -.00426 | -.82270 | .34580 | .32722 | .32744 | .12598 | .20346 |
| .901 | -9.239 | -.00807 | -.65225 | .27086 | .32426 | .32462 | .12611 | .19851 |
| .902 | -6.963 | -.00719 | -.48853 | .20025 | .31738 | .31800 | .12894 | .18906 |
| .903 | -4.686 | -.00409 | -.33662 | .13636 | .31276 | .31348 | .13419 | .17929 |
| .904 | -.0086 | -.00086 | -.19151 | .07692 | .30690 | .30774 | .13682 | .17152 |
| .905 | -.246 | -.00788 | -.05268 | .02063 | .30211 | .30309 | .13787 | .16522 |
| .906 | 1.952 | .01824 | .08439 | -.04321 | .29507 | .29610 | .13800 | .15810 |
| .907 | 4.208 | .02223 | .21231 | -.09636 | .29414 | .29545 | .13578 | .15967 |
| .899 | 6.483 | .01642 | .32786 | -.12832 | .29591 | .29717 | .13272 | .16446 |
| .899 | 8.598 | .01004 | .44849 | -.17287 | .29998 | .29999 | .12805 | .17194 |
| .899 | 10.783 | .00993 | .55893 | -.21122 | .30044 | .30120 | .12168 | .17952 |
| .899 | Grand | .00315 | .06192 | -.02641 | -.00221 | -.00215 | .00022 | -.00237 |

RUN NO. 28/0 RVL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|------|---------|---------|----------|---------|--------|--------|---------|--------|
| .976 | -11.966 | .00322 | -.88668 | .36200 | .40534 | .40563 | .16054 | .24510 |
| .979 | -9.547 | .00121 | -.68914 | .27943 | .40249 | .40279 | .16827 | .23653 |
| .981 | -7.171 | -.00275 | -.51308 | .20797 | .39995 | .40055 | .17326 | .22975 |
| .980 | -4.907 | -.00275 | -.35668 | .14778 | .39920 | .39605 | .17784 | .21820 |
| .979 | -2.687 | -.00043 | -.21966 | .09660 | .39001 | .39113 | .17912 | .21200 |
| .979 | -.376 | .01222 | -.159661 | .03169 | .39028 | .39151 | .17980 | .21171 |
| .980 | 1.927 | .02089 | .05700 | -.00792 | .39050 | .39165 | .17780 | .21385 |
| .980 | 4.165 | .02611 | .20790 | -.08276 | .39612 | .39711 | .17809 | .21902 |
| .979 | 6.401 | .01599 | .35132 | -.14165 | .39195 | .39290 | .17010 | .22281 |
| .978 | 8.691 | .01268 | .48471 | -.18840 | .38739 | .38878 | .16996 | .22582 |
| .977 | 10.534 | .01023 | .60008 | -.23266 | .38365 | .38561 | .15584 | .22978 |
| | 66.041 | .00348 | .60177 | -.02485 | .00010 | .00012 | -.00004 | .00015 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

(000006) (13 MAY 74)

LRC 6 TPT 667 1A41 74P6S1P201

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

| RUN NO. | 27/ 0 | RV/L = 2.11 | GRADIENT INTERVAL = -5.00/ 5.00 | | | | | |
|----------|---------|-------------|---------------------------------|---------|---------|--------|---------|--|
| ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT | |
| -12.416 | .01133 | -.94443 | .37725 | .45789 | .45787 | .23940 | .21847 | |
| -9.903 | .00371 | -.72585 | .28402 | .45398 | .45403 | .23828 | .21574 | |
| -7.395 | -.00125 | -.53610 | .21083 | .44958 | .44953 | .23974 | .20978 | |
| -5.080 | -.00496 | -.37782 | .15163 | .44523 | .44537 | .24334 | .20203 | |
| -2.757 | -.00051 | -.21750 | .08966 | .44135 | .44206 | .24596 | .19610 | |
| -.457 | .00941 | -.06144 | .02952 | .44131 | .44241 | .24831 | .19411 | |
| 1.855 | .02303 | .08483 | -.02660 | .44046 | .44134 | .24791 | .19343 | |
| 4.185 | .02686 | .22055 | -.06402 | .43997 | .44095 | .24622 | .19474 | |
| 6.482 | .01824 | .35786 | -.13695 | .43105 | .43206 | .23908 | .19298 | |
| 8.685 | .01109 | .48509 | -.19346 | .42064 | .42165 | .23338 | .18827 | |
| 11.009 | -.00700 | .60499 | -.22458 | .41616 | .41712 | .22741 | .18971 | |
| GRADIENT | .00414 | .06309 | -.02494 | -.00022 | -.00019 | .00001 | -.00020 | |

| MACH | XAC/L |
|-------|---------|
| .599 | .378736 |
| .799 | .398783 |
| .900 | .426530 |
| .976 | .402271 |
| 1.201 | .395388 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

(080507) (13 MAY 74)

LRC 6 TPT 667 1A41 74P6S1P201

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2695.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BRP = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 36/ 0 RNL = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .601 | -10.922 | .41788 | -.17310 | .05905 | .27263 | .27362 | .08318 | .19044 |
| .601 | -8.745 | .34292 | -.14895 | .05092 | .27034 | .27105 | .08414 | .18691 |
| .601 | -6.566 | .26437 | -.11802 | .04041 | .26778 | .26833 | .08733 | .18100 |
| .601 | -4.384 | .17697 | -.07974 | .02719 | .26608 | .26675 | .09512 | .17163 |
| .601 | -2.218 | .09263 | -.04222 | .01367 | .26366 | .26421 | .09823 | .16598 |
| .601 | -.030 | .00899 | -.00366 | .00165 | .26045 | .26139 | .10167 | .15972 |
| .601 | 2.132 | -.07707 | .03638 | -.01618 | .26142 | .26257 | .10677 | .15579 |
| .601 | 4.292 | -.16036 | .07425 | -.02232 | .26465 | .26553 | .11023 | .15330 |
| .601 | 6.485 | -.24594 | .11066 | -.03115 | .26778 | .26735 | .10980 | .15755 |
| .601 | 8.671 | -.33083 | .14633 | -.04726 | .27034 | .26889 | .11043 | .15845 |
| .601 | 10.864 | -.41334 | .17607 | -.05701 | .27204 | .27204 | .10843 | .16360 |
| GRADIENT | | -.03891 | .01781 | -.00572 | -.00024 | -.00019 | .00179 | -.00198 |

RUN NO. 35/ 0 RNL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .600 | -10.720 | .44739 | -.19511 | .06434 | .29371 | .29407 | .09943 | .19464 |
| .600 | -8.587 | .36378 | -.16324 | .05320 | .29133 | .29177 | .10213 | .18964 |
| .601 | -6.449 | .28197 | -.13190 | .04298 | .28731 | .28760 | .10651 | .18109 |
| .600 | -4.300 | .19488 | -.09472 | .03055 | .28126 | .28157 | .10754 | .17402 |
| .600 | -2.174 | .10127 | -.04989 | .01538 | .27573 | .27605 | .10993 | .16812 |
| .600 | -.024 | .01042 | -.00550 | .00219 | .27131 | .27226 | .11466 | .15760 |
| .600 | 2.105 | -.08122 | .04001 | -.01068 | .27421 | .27506 | .12200 | .15306 |
| .799 | 4.230 | -.17573 | .08815 | -.02524 | .27876 | .27895 | .12549 | .15346 |
| .600 | 6.376 | -.26564 | .12750 | -.03882 | .28311 | .28304 | .12797 | .15307 |
| .600 | 8.517 | -.34984 | .16037 | -.04921 | .28818 | .28803 | .13013 | .15790 |
| .600 | 10.667 | -.44050 | .19658 | -.06143 | .29244 | .29222 | .12866 | .16356 |
| GRADIENT | | -.04329 | .02116 | -.00645 | -.00031 | -.00029 | .00225 | -.00254 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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LRC 0 TPT 667 IA41 14P631201

000007) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 34/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .900 | -10.868 | .49267 | -.22572 | .07268 | .33644 | .33685 | .12525 | .21160 |
| .900 | -8.678 | .39994 | -.19255 | .06073 | .33107 | .33146 | .12726 | .20420 |
| .900 | -6.513 | .31139 | -.15375 | .04879 | .32243 | .32278 | .12827 | .19451 |
| .900 | -4.356 | .21732 | -.11230 | .03507 | .31333 | .31354 | .13037 | .18317 |
| .900 | -2.198 | .11634 | -.06095 | .01846 | .30608 | .30621 | .13206 | .17413 |
| .900 | -.029 | .01017 | -.00426 | .00271 | .30303 | .30393 | .13804 | .16589 |
| .899 | 2.121 | -.09338 | .04948 | -.01251 | .30668 | .30726 | .14291 | .16435 |
| .900 | 4.282 | -.19776 | .10365 | -.02890 | .31110 | .31094 | .14588 | .16506 |
| .899 | 6.443 | -.29293 | .14778 | -.04360 | .31837 | .31810 | .15067 | .16743 |
| .899 | 8.613 | -.38792 | .18889 | -.05737 | .32618 | .32588 | .15264 | .17324 |
| .899 | 10.795 | -.48093 | .22394 | -.06876 | .33300 | .33267 | .15280 | .17987 |
| GRADIENT | | -.04815 | .02511 | -.00736 | -.00018 | -.00019 | .00194 | -.00213 |

RUN NO. 33/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .980 | -10.986 | .52248 | -.23882 | .08529 | .42404 | .42429 | .16858 | .25571 |
| .980 | -8.792 | .42280 | -.19876 | .07149 | .42143 | .42179 | .17278 | .24901 |
| .980 | -6.589 | .32252 | -.15792 | .05631 | .41045 | .41072 | .17157 | .23914 |
| .981 | -4.412 | .22182 | -.11150 | .03896 | .40255 | .40285 | .17389 | .22882 |
| .980 | -2.212 | .11808 | -.05983 | .02065 | .39489 | .39533 | .17514 | .22018 |
| .980 | -.030 | .00838 | -.00251 | .00224 | .39177 | .39211 | .17637 | .21647 |
| .979 | 2.146 | -.09897 | .05417 | -.01539 | .39386 | .39456 | .18413 | .21043 |
| .979 | 4.319 | -.20526 | .10762 | -.03315 | .39906 | .39891 | .19522 | .20839 |
| .980 | 6.520 | -.30705 | .15406 | -.05051 | .41022 | .40994 | .19748 | .21246 |
| .980 | 8.721 | -.40598 | .19455 | -.06602 | .41862 | .41836 | .20058 | .21778 |
| .980 | 10.927 | -.51227 | .23725 | -.08074 | .42366 | .42330 | .20017 | .22314 |
| GRADIENT | | -.04909 | .02531 | -.00826 | -.00037 | -.00039 | .00193 | -.00232 |

LRC 8 TPT 667 1A41 74P6S1P208

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1297.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA
 ALPHA = .000 RUDDER = .000

RUN NO. 32/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|-------|----------|---------|---------|---------|---------|---------|--------|---------|
| 1.200 | -6.924 | .39601 | -.16586 | .06846 | .45904 | .45906 | .24852 | .21754 |
| 1.201 | -6.687 | .30173 | -.13178 | .05384 | .45421 | .45421 | .24965 | .20457 |
| 1.201 | -4.445 | .20354 | -.09289 | .03689 | .44764 | .44792 | .24802 | .19990 |
| 1.200 | -2.230 | .10382 | -.04792 | .01881 | .44163 | .44215 | .24710 | .19505 |
| 1.200 | -.042 | .00936 | -.00373 | .00211 | .44017 | .44124 | .24790 | .19334 |
| 1.201 | 2.175 | -.08803 | .04392 | -.01404 | .44039 | .44099 | .25315 | .18784 |
| 1.200 | 4.361 | -.18487 | .08831 | -.03121 | .44375 | .44362 | .26165 | .18197 |
| 1.200 | 6.576 | -.28286 | .12893 | -.04782 | .44850 | .44822 | .26863 | .17959 |
| 1.200 | 8.845 | -.38198 | .16395 | -.06320 | .45350 | .45321 | .26845 | .16476 |
| 1.200 | 9.974 | -.43378 | .18238 | -.07084 | .45487 | .45461 | .26757 | .16704 |
| 1.199 | GRADIENT | -.04400 | .02063 | -.00768 | -.00041 | -.00044 | .00151 | -.00196 |

| MACH | YAC/L |
|-------|---------|
| .601 | .457838 |
| .800 | .488942 |
| .900 | .521533 |
| .980 | .515923 |
| 1.200 | .468933 |

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TABULATED SOURCE DATA, LARC 9FT.-667 (IA-41)

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LRC 8 IPT 667 IA41 T2P4S1P201

(000000) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 41/ 0 RVL = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .599 | -10.937 | .41801 | -.16811 | .05914 | .27227 | .27321 | .08267 | .19054 |
| .600 | -8.773 | .34666 | -.14622 | .05131 | .27050 | .27126 | .08466 | .18661 |
| .599 | -6.572 | .26249 | -.11411 | .04017 | .26741 | .26794 | .08714 | .18080 |
| .600 | -4.426 | .17992 | -.07922 | .02762 | .26345 | .26607 | .09438 | .17170 |
| .600 | -2.216 | .08953 | -.03967 | .01334 | .26310 | .26363 | .09776 | .16587 |
| .599 | -.053 | .00995 | -.00379 | .00194 | .26156 | .26150 | .10174 | .15976 |
| .599 | 2.140 | -.07971 | .03689 | -.01054 | .26204 | .26318 | .10773 | .15545 |
| .599 | 4.297 | -.16011 | .07248 | -.02282 | .26510 | .26593 | .11078 | .15516 |
| .599 | 6.488 | -.24415 | .10773 | -.03565 | .26735 | .26782 | .11134 | .15648 |
| .600 | 8.682 | -.33160 | .14310 | -.04778 | .26937 | .26949 | .11080 | .15869 |
| .600 | 10.657 | -.41248 | .17144 | -.05715 | .27256 | .27258 | .10942 | .16316 |
| GRADIENT | | -.03896 | .01743 | -.00572 | -.00006 | -.00003 | .00196 | -.00200 |

RUN NO. 40/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .799 | -10.739 | .44612 | -.18998 | .06425 | .29257 | .29294 | .09867 | .19428 |
| .800 | -8.595 | .36278 | -.15917 | .05310 | .29070 | .29105 | .10323 | .18782 |
| .800 | -6.439 | .27828 | -.12764 | .04253 | .28808 | .28642 | .10332 | .18110 |
| .799 | -4.312 | .19315 | -.09195 | .03034 | .28050 | .28080 | .10725 | .17356 |
| .799 | -2.166 | .10069 | -.04845 | .01535 | .27580 | .27592 | .11014 | .16578 |
| .799 | -.045 | .01007 | -.00456 | .00220 | .27138 | .27239 | .11629 | .15609 |
| .799 | 2.089 | -.08347 | .04074 | -.01108 | .27453 | .27534 | .12279 | .15255 |
| .800 | 4.234 | -.17644 | .08545 | -.02540 | .27853 | .27875 | .12581 | .15293 |
| .799 | 6.358 | -.26439 | .12486 | -.03892 | .28357 | .28356 | .12844 | .15512 |
| .800 | 8.493 | -.34863 | .15699 | -.04934 | .28839 | .28827 | .13056 | .15771 |
| .799 | 10.674 | -.43905 | .19203 | -.06145 | .29248 | .29230 | .12871 | .16359 |
| GRADIENT | | -.04325 | .02080 | -.00646 | -.00023 | -.00022 | .00233 | -.00255 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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LRC 8 TPT 667 IA41 T2P4S1P201

(000000) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 39/ 0 RV/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .901 | -10.891 | .49354 | -.22251 | .07299 | .33576 | .33620 | .12365 | .21235 |
| .900 | -8.696 | .39882 | -.18628 | .06057 | .32914 | .32949 | .12609 | .20340 |
| .899 | -6.547 | .31044 | -.15096 | .04858 | .32110 | .32141 | .12785 | .19356 |
| .899 | -4.386 | .21921 | -.11085 | .03504 | .31283 | .31305 | .12977 | .18329 |
| .899 | -2.212 | .11736 | -.06223 | .01861 | .30550 | .30563 | .13080 | .17483 |
| .899 | -.048 | .00896 | -.00321 | .00257 | .30258 | .30353 | .13912 | .16440 |
| .899 | 2.102 | -.09378 | .04952 | -.01249 | .30660 | .30720 | .14294 | .16426 |
| .899 | 4.273 | -.19750 | .10259 | -.02893 | .31042 | .31029 | .14542 | .16486 |
| .899 | 6.427 | -.29274 | .14823 | -.04379 | .31802 | .31779 | .15100 | .16678 |
| .899 | 8.612 | -.38906 | .18720 | -.05772 | .32682 | .32659 | .15401 | .17258 |
| .899 | 10.792 | -.48052 | .22104 | -.06863 | .33315 | .33285 | .15284 | .18002 |
| GRADIENT | | -.04829 | .02481 | -.00735 | -.00017 | -.00018 | .00201 | -.00219 |

RUN NO. 38/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .980 | -11.019 | .92005 | -.23376 | .08508 | .42111 | .42137 | .16578 | .25559 |
| .980 | -8.818 | .41906 | -.19608 | .07101 | .41622 | .41647 | .16578 | .25070 |
| .979 | -6.599 | .32025 | -.15553 | .05617 | .40795 | .40817 | .17072 | .23745 |
| .980 | -4.421 | .21879 | -.10876 | .03879 | .39866 | .39883 | .17008 | .22875 |
| .980 | -2.230 | .11444 | -.05666 | .02032 | .39301 | .39343 | .17302 | .22042 |
| .979 | -.072 | .00832 | -.00172 | .00225 | .38928 | .39047 | .17631 | .21417 |
| .979 | 2.118 | -.09955 | .05411 | -.01556 | .39045 | .39099 | .18103 | .20996 |
| .979 | 4.307 | -.20216 | .10511 | -.03301 | .39670 | .39656 | .18651 | .21005 |
| .979 | 6.493 | -.30147 | .15040 | -.04971 | .40472 | .40448 | .19201 | .21247 |
| .979 | 8.691 | -.40098 | .19180 | -.06330 | .41457 | .41426 | .19714 | .21712 |
| .979 | 10.892 | -.50495 | .23375 | -.07991 | .41578 | .41550 | .19378 | .22175 |
| GRADIENT | | -.04843 | .02470 | -.00823 | -.00030 | -.00032 | .00187 | -.00219 |

(080000) (13 MAY 74)

LRC 8 TPT 667 1A41 T2P431P20C

REFERENCE DATA

SEEF = 2690.0000 SQ.FT.
 LEF = 1290.0000 INCHES
 BREF = 1290.0000 INCHES
 SCALE = .0150 SCALE

YMRP = 976.0000 INCHES
 YMRP = .0000 INCHES
 ZMRP = 400.0000 INCHES

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 37/0 RV/L = 2.12 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|--------|---------|---------|---------|---------|---------|--------|---------|
| 1.201 | -6.923 | .39464 | -.16327 | .06823 | .44509 | .44511 | .23189 | .21322 |
| 1.202 | -6.692 | .29743 | -.12869 | .05338 | .44122 | .44129 | .23332 | .20797 |
| 1.203 | -4.474 | .19894 | -.08872 | .03632 | .43538 | .43565 | .23197 | .20368 |
| 1.203 | -2.232 | .10117 | -.04479 | .01850 | .42960 | .43006 | .23130 | .19876 |
| 1.203 | -.039 | .00656 | -.00151 | .00208 | .42789 | .42887 | .23287 | .19599 |
| 1.203 | 2.145 | -.08661 | .04235 | -.01396 | .42714 | .42742 | .23797 | .18945 |
| 1.203 | 4.366 | -.18417 | .08652 | -.03124 | .43210 | .43196 | .24702 | .18494 |
| 1.202 | 6.594 | -.28374 | .12780 | -.04810 | .43638 | .43612 | .25263 | .18349 |
| 1.201 | 8.833 | -.38203 | .16218 | -.06327 | .44110 | .44082 | .25286 | .18797 |
| 1.201 | 10.006 | -.43514 | .18086 | -.07111 | .44171 | .44146 | .25163 | .18984 |
| GRADIENT | | -.04321 | .01982 | -.00759 | -.00041 | -.00045 | .00166 | -.00212 |

| MACH | YAC/L |
|-------|---------|
| .599 | .447375 |
| .799 | .480850 |
| .901 | .513734 |
| .980 | .510000 |
| 1.201 | .458712 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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LRC 8 TPT 667 IA41 T2P4S1P201

(B080009) (13 MAY 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCAL = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 46/ 0 RN/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .600 | -11.884 | -.01887 | -.81895 | .34130 | .26507 | .26565 | .07606 | .18879 |
| .601 | -9.588 | -.01716 | -.67045 | .28140 | .26697 | .26764 | .08290 | .18474 |
| .600 | -7.303 | -.01459 | -.53389 | .22805 | .26666 | .26741 | .08735 | .18006 |
| .600 | -4.999 | -.01483 | -.39793 | .17604 | .26415 | .26494 | .09449 | .17045 |
| .601 | -2.769 | -.00097 | -.27381 | .13065 | .26246 | .26340 | .09981 | .16359 |
| .600 | -.501 | .01050 | -.16037 | .08769 | .26034 | .26145 | .10227 | .15918 |
| .600 | 1.743 | .02346 | -.04091 | .04236 | .25498 | .25631 | .10121 | .15510 |
| .600 | 4.017 | .03033 | .08937 | -.00525 | .24716 | .24874 | .09573 | .15301 |
| .600 | 6.332 | .02228 | .21411 | -.04763 | .23645 | .23828 | .08599 | .15229 |
| .599 | 8.591 | .01587 | .34314 | -.09609 | .22571 | .22765 | .07478 | .15287 |
| .600 | 10.870 | .01795 | .48341 | -.15432 | .21294 | .21484 | .06215 | .15269 |
| GRADIENT | | .00509 | .05365 | -.02000 | -.00184 | -.00175 | .00017 | -.00192 |

RUN NO. 45/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .799 | -11.408 | -.00883 | -.78816 | .32769 | .29468 | .29497 | .10325 | .19172 |
| .799 | -9.147 | -.00815 | -.63717 | .26712 | .29047 | .29085 | .10319 | .18766 |
| .799 | -6.948 | -.00797 | -.50171 | .21396 | .28536 | .28582 | .10609 | .17973 |
| .799 | -4.739 | -.00705 | -.36565 | .16037 | .28080 | .28130 | .11032 | .17078 |
| .799 | -2.541 | -.00420 | -.23927 | .11136 | .27647 | .27716 | .11455 | .16261 |
| .800 | -.351 | .00599 | -.12191 | .06464 | .27202 | .27309 | .11724 | .15584 |
| .800 | 1.833 | .01551 | .00197 | .01240 | .26551 | .26682 | .11491 | .15191 |
| .800 | 4.013 | .02076 | .12615 | -.03309 | .26106 | .26271 | .11045 | .15226 |
| .799 | 6.239 | .01772 | .26129 | -.08334 | .25518 | .25694 | .10337 | .15357 |
| .800 | 8.435 | .01028 | .38320 | -.12873 | .25820 | .25994 | .10342 | .15651 |
| .799 | 10.597 | .00559 | .49872 | -.17240 | .26072 | .26253 | .10239 | .16014 |
| GRADIENT | | .00344 | .05598 | -.02221 | -.00230 | -.00217 | .00001 | -.00218 |

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

DATE 12 JUL 74

(080009) (13 MAY 74)

LEC 8 TPT 667 1A41 72P4S1P201

PARAMETRIC DATA

REFERENCE DATA

XREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = .000 RUDDER = .000

RUN NO. 44/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .90 | -11.669 | -.00841 | -.83682 | .34895 | .32822 | .32845 | .12403 | .20438 |
| .90 | -9.380 | -.01118 | -.66194 | .27330 | .32445 | .32486 | .12685 | .19800 |
| .90 | -7.122 | -.00939 | -.49792 | .20357 | .31891 | .31932 | .13114 | .18838 |
| .90 | -4.858 | -.00759 | -.35010 | .14292 | .31335 | .31406 | .13362 | .18044 |
| .90 | -2.600 | -.00625 | -.20621 | .08397 | .30835 | .30912 | .13678 | .17234 |
| .90 | -.374 | .00951 | -.07036 | .02869 | .30234 | .30332 | .13748 | .16584 |
| .899 | 1.864 | .01379 | .07131 | -.03611 | .29539 | .29645 | .13793 | .15832 |
| .899 | 4.069 | .01812 | .19672 | -.08693 | .29450 | .29572 | .13615 | .15937 |
| .899 | 6.285 | .01896 | .31038 | -.12027 | .29622 | .29756 | .13390 | .16366 |
| .900 | 8.532 | .01308 | .43699 | -.16673 | .29915 | .30009 | .12909 | .17101 |
| .900 | 10.729 | .00685 | .55083 | -.20407 | .30122 | .30205 | .12409 | .17796 |
| GRADIENT | | .07300 | .06144 | -.02598 | -.00227 | -.00221 | .00028 | -.00249 |

RUN NO. 43/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|--------|--------|---------|--------|
| .978 | -11.991 | .00114 | -.89216 | .36186 | .40327 | .40361 | .15938 | .24422 |
| .980 | -9.657 | .00063 | -.70336 | .28418 | .40253 | .40286 | .16479 | .23807 |
| .981 | -7.331 | -.00219 | -.52875 | .21167 | .39932 | .40009 | .17303 | .22706 |
| .981 | -5.016 | -.00356 | -.37071 | .15296 | .39488 | .39574 | .17657 | .21918 |
| .980 | -2.731 | -.00090 | -.22874 | .10143 | .39000 | .39114 | .17887 | .21228 |
| .979 | -.464 | .00972 | -.09728 | .05570 | .38742 | .38866 | .17829 | .21036 |
| .980 | 1.807 | .02159 | .04963 | -.00391 | .38902 | .39021 | .17680 | .21361 |
| .980 | 4.032 | .02406 | .19655 | -.07549 | .39476 | .39576 | .17427 | .22148 |
| .979 | 6.301 | .01659 | .33835 | -.13836 | .39311 | .39405 | .16912 | .22493 |
| .979 | 8.570 | .01126 | .47031 | -.18374 | .38940 | .39068 | .16273 | .22795 |
| .979 | 10.825 | .01126 | .59230 | -.22058 | .38458 | .38653 | .15440 | .23213 |
| GRADIENT | | .00385 | .06306 | -.02616 | .00070 | .00068 | -.00069 | .00136 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

DATE 12 JUL 74

(B00009) (13 MAY 74)

LRC 8 TPT 667 1A41 12P4S1P201

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 42/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.201 | -11.185 | .00521 | -.62940 | .32904 | .44268 | .44260 | .22457 | .21803 |
| 1.201 | -9.995 | .00467 | -.73102 | .28891 | .44033 | .44027 | .22420 | .21607 |
| 1.201 | -7.586 | -.00159 | -.55025 | .21955 | .43692 | .43682 | .22601 | .21081 |
| 1.201 | -5.222 | -.00499 | -.38681 | .15787 | .43321 | .43326 | .22977 | .20349 |
| 1.201 | -2.858 | -.00122 | -.22453 | .09429 | .43043 | .43116 | .23341 | .19775 |
| 1.201 | -.537 | .00895 | -.07192 | .03470 | .42985 | .43099 | .23515 | .19574 |
| 1.201 | 1.791 | .02239 | .07649 | -.02169 | .42830 | .42903 | .23333 | .19570 |
| 1.201 | 4.077 | .02453 | .20911 | -.07770 | .42658 | .42741 | .22999 | .19742 |
| 1.201 | 6.382 | .01978 | .34579 | -.13038 | .41848 | .41938 | .22386 | .19552 |
| 1.200 | 8.683 | .01265 | .48375 | -.18623 | .40913 | .41003 | .21851 | .19152 |
| 1.201 | 10.954 | .00455 | .59952 | -.21955 | .40532 | .40630 | .21276 | .19354 |
| GRADIENT | | .00392 | .06266 | -.02474 | -.00057 | -.00057 | -.00052 | -.00005 |

| MACH | YAC/L |
|-------|---------|
| .600 | .372771 |
| .799 | .396713 |
| .901 | .422834 |
| .978 | .414859 |
| 1.201 | .394880 |

(B00010) (13 MAY 74)

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YARP = 976.0000 INCHES
LREF = 1290.3000 INCHES YARP = .0000 INCHES
BREF = 1290.3000 INCHES ZARP = 400.0000 INCHES
SCALE = .0150 SCALE

GRADIENT INTERVAL = -5.00/ 5.00

| Wavelength | Alpha | Beta | CN | CLM | CA | CAT | CAFT | CABT |
|------------|---------|----------|----------|----------|---------|----------|---------|----------|
| 596 | -11.028 | -0.1517 | -0.63255 | 0.37481 | 0.16882 | 0.16716 | 0.04930 | 0.1706 |
| 600 | -8.860 | -0.1968 | -0.52317 | 0.31327 | 0.16553 | 0.16577 | 0.05359 | 0.1218 |
| 605 | -6.621 | -0.02073 | -0.41913 | 0.25181 | 0.16356 | 0.16378 | 0.05770 | 0.1007 |
| 610 | -4.372 | -0.02548 | -0.30902 | 0.18975 | 0.16321 | 0.16342 | 0.06393 | 0.09950 |
| 615 | -2.322 | -0.01533 | -0.22172 | 0.14211 | 0.16206 | 0.16231 | 0.06852 | 0.09380 |
| 620 | -1.188 | -0.00207 | -0.12961 | 0.09323 | 0.15809 | 0.15859 | 0.07074 | 0.08776 |
| 625 | 1.975 | 0.00659 | -0.04017 | 0.04592 | 0.15055 | 0.15103 | 0.06937 | 0.08166 |
| 630 | 4.035 | 0.01934 | 0.04783 | -0.00120 | 0.14042 | 0.14090 | 0.06410 | 0.07680 |
| 635 | 6.215 | 0.01374 | 0.14416 | -0.35481 | 0.12723 | 0.12750 | 0.05546 | 0.07204 |
| 640 | 8.463 | 0.00671 | 0.24462 | -1.1079 | 0.11154 | 0.11171 | 0.04297 | 0.06874 |
| 645 | 10.327 | 0.00237 | 0.34542 | -1.6818 | 0.09641 | 0.09659 | 0.03040 | 0.06619 |
| 650 | 12.157 | 0.00028 | 0.42421 | -0.02264 | 0.08271 | -0.00267 | 0.00006 | -0.00273 |

GRADIENT INTERVAL = -5.00/ 5.00

| Wavelength | Alpha | Beta | CN | CLM | CA | CAT | CAFT | CABT |
|------------|----------|---------|---------|---------|---------|---------|---------|---------|
| .800 | -10.700 | -.00876 | -.58629 | .34820 | .19428 | .19479 | .07178 | .12301 |
| .800 | -8.579 | -.00866 | -.48196 | .28860 | .18853 | .18908 | .07322 | .11586 |
| .799 | -6.324 | -.01091 | -.39820 | .24326 | .17906 | .17955 | .07282 | .10673 |
| .800 | -4.306 | -.00965 | -.29637 | .18546 | .17359 | .17401 | .07342 | .10060 |
| .799 | -2.277 | -.00702 | -.19499 | .12823 | .17006 | .17050 | .07552 | .09497 |
| .800 | -.105 | .00116 | -.10191 | .12407 | .16447 | .16496 | .07586 | .08810 |
| .800 | 1.970 | .01008 | -.00649 | .02407 | .15801 | .15854 | .07549 | .08305 |
| .800 | 4.078 | .01515 | .09172 | -.03081 | .14923 | .14971 | .07012 | .07958 |
| .799 | 6.171 | .01142 | .19667 | -.09032 | .14158 | .14192 | .07787 | .07787 |
| .799 | 8.321 | .00828 | .28955 | -.14110 | .14187 | .14218 | .06412 | .07806 |
| .799 | 10.413 | .00362 | .37327 | -.18439 | .14589 | .14624 | .06610 | .08014 |
| .799 | Gradient | .00318 | .04599 | -.02553 | -.00289 | -.00288 | -.00032 | -.00257 |

DATE 12 JUL 74

SIMULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

PAGE 127

LRC 8 TPT 667 IA41 T1P101

(080010) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 54. FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BE/A = .000 RUDEK = .000

RUN NO. 49/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .899 | -10.882 | -.00724 | -.62964 | .38074 | .21402 | .21411 | .09041 | .12370 |
| .901 | -8.741 | -.00791 | -.50803 | .30873 | .20885 | .20917 | .09203 | .11714 |
| .903 | -6.543 | -.00995 | -.39286 | .24041 | .20064 | .20107 | .09006 | .11101 |
| .905 | -4.397 | -.01058 | -.28205 | .17664 | .19402 | .19444 | .08957 | .10487 |
| .907 | -2.246 | -.00734 | -.17382 | .11489 | .19074 | .19120 | .09212 | .09908 |
| .909 | -.127 | -.00158 | -.06995 | .05064 | .18600 | .18651 | .09376 | .09276 |
| .911 | 1.961 | .01343 | .04399 | -.00953 | .18093 | .18150 | .09136 | .09014 |
| .913 | 4.211 | .01767 | .14453 | -.06316 | .17871 | .17938 | .09118 | .06820 |
| .915 | 6.214 | .01499 | .23557 | -.11312 | .17840 | .17901 | .09229 | .06672 |
| .917 | 8.365 | .00966 | .33676 | -.17006 | .18012 | .18028 | .09011 | .09017 |
| .919 | 10.536 | -.00823 | .41358 | -.20726 | .18615 | .18646 | .09136 | .09510 |
| GRADIENT | | .00360 | .04998 | -.02818 | -.00188 | -.00186 | .00011 | -.00197 |

RUN NO. 48/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .979 | -11.037 | .00375 | -.70161 | .44555 | .27849 | .27901 | .12770 | .15131 |
| .979 | -8.875 | -.00635 | -.57739 | .37374 | .27662 | .27660 | .12899 | .14761 |
| .981 | -6.691 | -.00917 | -.44507 | .29346 | .27148 | .27145 | .13261 | .13884 |
| .983 | -4.518 | -.00987 | -.31075 | .20962 | .26515 | .26551 | .13336 | .13215 |
| .985 | -2.374 | -.00477 | -.18753 | .13589 | .26264 | .26311 | .13757 | .12555 |
| .987 | -.200 | .00488 | -.07041 | .06824 | .25903 | .25962 | .13820 | .12142 |
| .989 | 1.999 | .01619 | .05539 | -.00652 | .25666 | .25738 | .13688 | .12050 |
| .991 | 4.187 | .01911 | .18288 | -.08238 | .25750 | .25820 | .13632 | .12188 |
| .993 | 6.292 | .01436 | .29842 | -.15103 | .25708 | .25769 | .13321 | .12448 |
| .995 | 8.474 | .00162 | .40523 | -.21033 | .25903 | .26004 | .13081 | .12923 |
| .997 | 10.598 | -.00722 | .49836 | -.25994 | .26150 | .26150 | .13024 | .13126 |
| GRADIENT | | .00362 | .05648 | -.03335 | -.00098 | -.00093 | .00024 | -.00117 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 6FT.-667 (IA-41)

PAGE 126

LRC 6 TPT 667 IA41 TIP101

(000010) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 47/ 0 RNL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| | WACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|--------|---------|
| 1.201 | -11.149 | -.00198 | -.63266 | .40694 | .33419 | .33487 | .19787 | .14300 | .13891 |
| 1.202 | -9.051 | -.00363 | -.53932 | .34318 | .32822 | .32883 | .18992 | .13299 | .12662 |
| 1.203 | -6.712 | -.00735 | -.42472 | .28139 | .32275 | .32320 | .19071 | .12323 | .11840 |
| 1.204 | -4.621 | -.00713 | -.30829 | .21268 | .32075 | .32096 | .19234 | .11615 | .11576 |
| 1.201 | -2.444 | -.00460 | -.17594 | .13175 | .31760 | .31764 | .19441 | .11499 | .11289 |
| 1.202 | -.226 | .00480 | -.05297 | .05846 | .31535 | .31574 | .19734 | .10039 | -.00145 |
| 1.201 | 1.959 | .01677 | .06445 | -.01014 | .31291 | .31340 | .19737 | | |
| 1.201 | 4.231 | .02016 | .18187 | -.07615 | .31088 | .31133 | .19518 | | |
| 1.201 | 6.304 | .01692 | .28395 | -.13269 | .30592 | .30638 | .19062 | | |
| 1.202 | 8.454 | .01236 | .39311 | -.19116 | .30100 | .30135 | .18636 | | |
| 1.203 | 10.635 | .00661 | .49572 | -.24242 | .29639 | .29686 | .18397 | | |
| GRADIENT | | .00343 | .05521 | -.03254 | -.00110 | -.00106 | | | |

| MACH | YAC/L |
|-------|---------|
| .598 | .534007 |
| .600 | .556335 |
| .699 | .563917 |
| .979 | .590492 |
| 1.201 | .589393 |

DATE 12 -J- 74

TABULATED SOURCE DATA, LARC 8FT. -667 (1A-41)

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LRC 8 TPT 667 1A41 T1F101

(B080011) (13 MAY 74)

REFERENCE DATA

XREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 55/ 0 RNVL = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|
| .600 | -9.893 | .33741 | -.14637 | .06859 | .18314 | .18395 | .07133 | .11553 |
| .600 | -8.694 | .34426 | -.13277 | .06204 | .18113 | .18193 | .07244 | .10948 |
| .600 | -6.618 | .26642 | -.10565 | .04916 | .17713 | .17780 | .07447 | .10333 |
| .600 | -4.406 | .18321 | -.07382 | .03412 | .16985 | .17021 | .07467 | .09554 |
| .600 | -2.208 | .09944 | -.04099 | .01661 | .16366 | .16383 | .07374 | .09010 |
| .599 | -.052 | .01838 | -.00980 | .00437 | .15916 | .15942 | .07153 | .08790 |
| .600 | 2.123 | -.07820 | .03464 | -.01339 | .15912 | .15905 | .07186 | .08719 |
| .600 | 4.359 | -.16623 | .06982 | -.02962 | .16124 | .16149 | .07137 | .09012 |
| .599 | 6.527 | -.25217 | .10195 | -.04551 | .16226 | .16254 | .06702 | .09552 |
| .600 | 8.828 | -.33657 | .13248 | -.05931 | .16416 | .16420 | .05945 | .10476 |
| .600 | 9.896 | -.37517 | .14455 | -.06498 | .16452 | .16456 | .05636 | .10818 |
| GRADIENT | | -.04010 | .01660 | -.00730 | -.00099 | -.00101 | -.00039 | -.00063 |

RUN NO. 55/ 0 RNVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .799 | -10.667 | .43318 | -.16574 | .07667 | .19786 | .19226 | .07974 | .11852 |
| .800 | -8.566 | .35016 | -.13798 | .06348 | .19133 | .19187 | .08110 | .11077 |
| .799 | -6.401 | .27030 | -.11063 | .05053 | .18518 | .18567 | .08212 | .10355 |
| .800 | -4.297 | .18574 | -.07854 | .03579 | .17902 | .17934 | .08227 | .09707 |
| .799 | -2.085 | .09697 | -.04115 | .01892 | .17210 | .17230 | .07966 | .09264 |
| .799 | -.020 | .01390 | -.00675 | .00402 | .16598 | .16638 | .07708 | .08930 |
| .799 | 2.100 | -.07872 | .03548 | -.01304 | .16595 | .16632 | .07691 | .08941 |
| .799 | 4.259 | -.17470 | .07746 | -.03151 | .16904 | .16919 | .07596 | .09324 |
| .799 | 6.463 | -.26243 | .11320 | -.04793 | .16937 | .16942 | .07228 | .09714 |
| .799 | 8.573 | -.34470 | .14099 | -.06017 | .17127 | .17117 | .06748 | .10369 |
| .799 | 10.702 | -.42764 | .16980 | -.07370 | .17477 | .17459 | .05932 | .11508 |
| GRADIENT | | -.04210 | .01825 | -.00782 | -.00123 | -.00123 | -.00072 | -.00051 |

LRC 8 TPT 667 1A41 TIP101

(000011) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 58. FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 54/ 0 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .900 | -10.837 | .47120 | -.18969 | .08475 | .22537 | .22567 | .09840 | .12727 |
| .900 | -8.684 | .38288 | -.15999 | .07055 | .21835 | .21861 | .09885 | .11977 |
| .900 | -6.528 | .29440 | -.12768 | .05340 | .21077 | .21097 | .09962 | .11135 |
| .900 | -4.386 | .20425 | -.09192 | .03939 | .20284 | .20302 | .09846 | .10456 |
| .899 | -2.196 | .10723 | -.04848 | .02086 | .19442 | .19457 | .09514 | .09943 |
| .900 | -.008 | .01088 | -.00520 | .00318 | .18679 | .18729 | .09348 | .09381 |
| .900 | 2.162 | -.09275 | .04520 | -.01505 | .18824 | .18861 | .09371 | .09491 |
| .900 | 4.341 | -.19245 | .09151 | -.03464 | .19240 | .19243 | .09294 | .09950 |
| .899 | 6.516 | -.28584 | .12942 | -.05166 | .19630 | .19618 | .08999 | .10619 |
| .900 | 8.707 | -.37909 | .16326 | -.06783 | .20032 | .20006 | .08645 | .11361 |
| .900 | 10.844 | -.46795 | .19416 | -.08139 | .20382 | .20347 | .07933 | .12414 |
| GRADIENT | | -.04554 | .02111 | -.00843 | -.00124 | -.00125 | -.00057 | -.00067 |

RUN NO. 55/ 0 RNL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .979 | -10.808 | .48167 | -.19233 | .09679 | .29030 | .29064 | .13972 | .15892 |
| .981 | -8.738 | .38954 | -.15839 | .08100 | .29584 | .29603 | .14306 | .15297 |
| .981 | -6.573 | .29368 | -.12352 | .06350 | .28998 | .28619 | .14261 | .14359 |
| .980 | -4.364 | .19410 | -.08191 | .04298 | .27528 | .27562 | .14205 | .13357 |
| .980 | -2.201 | .09936 | -.04061 | .02224 | .26343 | .26385 | .13811 | .12574 |
| .979 | -.008 | .00758 | -.00227 | .00273 | .25801 | .25860 | .13718 | .12142 |
| .979 | 2.183 | -.08777 | .04051 | -.01679 | .25858 | .25920 | .13632 | .12288 |
| .980 | 4.363 | -.18822 | .08554 | -.03884 | .26767 | .26777 | .13576 | .13201 |
| .980 | 6.581 | -.28634 | .12570 | -.05891 | .27389 | .27371 | .13342 | .14028 |
| .978 | 8.766 | -.38371 | .16256 | -.07646 | .27713 | .27690 | .12839 | .14851 |
| .979 | 10.986 | -.48770 | .19917 | -.09426 | .28004 | .27970 | .11949 | .16022 |
| GRADIENT | | -.04358 | .01905 | -.00928 | -.00092 | -.00093 | -.00066 | -.00027 |

RUN NO. 52/ 0 RNL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|
| 1.201 | -8.788 | .36896 | -.13306 | .07773 | .34763 | .34764 | .20182 | .14602 |
| 1.201 | -6.601 | .27725 | -.10255 | .06085 | .33763 | .33793 | .20072 | .13721 |
| 1.201 | -4.390 | .18342 | -.06779 | .04148 | .32623 | .32657 | .19671 | .12787 |
| 1.201 | -2.231 | .09262 | -.03321 | .02186 | .31694 | .31707 | .19707 | .12000 |
| 1.201 | .002 | .00476 | -.00013 | .00276 | .31420 | .31442 | .19668 | .11774 |
| 1.201 | 2.211 | -.08327 | .03435 | -.01735 | .31656 | .31677 | .19691 | .11985 |
| 1.201 | 4.387 | -.17269 | .06858 | -.03674 | .31841 | .31619 | .19421 | .12198 |
| 1.201 | 6.600 | -.27029 | .10377 | -.05676 | .32018 | .31979 | .19193 | .12785 |
| 1.201 | 8.894 | -.36371 | .13413 | -.07400 | .32081 | .32033 | .18757 | .13276 |
| GRADIENT | | -.04037 | .01547 | -.00889 | -.00091 | -.00096 | -.00041 | -.00054 |

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

(080011) (13 MAY 74)

LRC 8 TPT 667 1A41 T1P101

REFERENCE DATA

XREF = 2890.0000 SQ.FT. XREF = 976.0000 INCHES
 LREF = 1290.3000 INCHES YREF = .0000 INCHES
 BREF = 1290.3000 INCHES ZREF = 400.0000 INCHES
 SCALE = .0100 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

| MACH | YAC/L |
|-------|---------|
| .600 | .414038 |
| .799 | .433455 |
| .900 | .463596 |
| .979 | .437103 |
| 1.201 | .383174 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 9FT.-667 (1A-41)

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LRC 6 TPT 667 1A41 T1P1

(080012) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 61/ 0 RNVL = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|
| .599 | -10.315 | -.00968 | -.11356 | .00376 | .08955 | .09326 | .04412 | .04914 |
| .599 | -8.232 | -.00929 | -.09398 | .00616 | .08362 | .08713 | .04302 | .04411 |
| .599 | -6.143 | -.00739 | -.07806 | .01017 | .07840 | .08156 | .04170 | .03986 |
| .598 | -4.146 | -.00303 | -.06490 | .01527 | .07557 | .07819 | .04126 | .03693 |
| .599 | -2.087 | .00269 | -.05129 | .02091 | .07360 | .07589 | .04169 | .03419 |
| .600 | -.027 | .00802 | -.03613 | .02574 | .07233 | .07456 | .04213 | .03244 |
| .599 | 2.086 | .00734 | -.01761 | .02904 | .07172 | .07382 | .04193 | .03190 |
| .600 | 4.129 | .00486 | .00185 | .03140 | .07010 | .07193 | .04107 | .03086 |
| .599 | 6.120 | .00263 | .01971 | .03435 | .06744 | .06907 | .04025 | .02882 |
| .600 | 8.194 | .00199 | .03927 | .03720 | .06578 | .06725 | .03889 | .02835 |
| .600 | 10.238 | .00278 | .05878 | .03984 | .06370 | .06478 | .03679 | .02799 |
| GRADIENT | | .00098 | .00807 | .00195 | -.00062 | -.00070 | -.00001 | -.00070 |

RUN NO. 60/ 0 RNVL = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|
| .799 | -10.193 | -.00720 | -.11719 | .00526 | .09751 | .10135 | .04470 | .05665 |
| .801 | -8.183 | -.00731 | -.09682 | .00765 | .09259 | .09603 | .04361 | .05242 |
| .800 | -6.155 | -.00693 | -.08240 | .01299 | .08653 | .08920 | .04305 | .04615 |
| .800 | -4.067 | -.00407 | -.06466 | .01589 | .08327 | .08567 | .04303 | .04264 |
| .799 | -2.101 | -.00009 | -.04760 | .01874 | .08049 | .08257 | .04329 | .03927 |
| .800 | -.011 | .00284 | -.02759 | .02089 | .08066 | .08240 | .04370 | .03870 |
| .799 | 1.986 | .00320 | -.00790 | .02215 | .07925 | .08105 | .04296 | .03809 |
| .799 | 4.066 | .00293 | .01334 | .02346 | .07514 | .07695 | .04210 | .03485 |
| .800 | 6.076 | .00076 | .03450 | .02468 | .07416 | .07602 | .04054 | .03547 |
| .799 | 8.096 | .00120 | .05392 | .02773 | .07354 | .07517 | .03819 | .03698 |
| .799 | 10.179 | .00136 | .07540 | .02982 | .07310 | .07472 | .03536 | .03955 |
| GRADIENT | | .00095 | .00962 | .00091 | -.00086 | -.00093 | -.00011 | -.00082 |

TABULATE SOURCE DATA, LARC 8FT.-667 (1A-41)

DATE 12 JUL 74

(080012) (13 MAY 74)

LRC 8 TPT 667 1A4: T1P1

PARAMETRIC DATA

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = .000 RUDDER = .000

RUN NO. 59/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|--------|---------|---------|---------|---------|
| .899 | -10.250 | -.00686 | -.11882 | .00267 | .11245 | .11550 | .05341 | .06209 |
| .900 | -8.141 | -.00789 | -.09555 | .00371 | .10597 | .10862 | .03206 | .05656 |
| .900 | -6.186 | -.00724 | -.07491 | .00515 | .10030 | .10259 | .03156 | .05103 |
| .899 | -4.111 | -.00450 | -.05543 | .00775 | .09500 | .09710 | .03099 | .04612 |
| .900 | -2.086 | .00068 | -.03474 | .00908 | .09533 | .09707 | .03168 | .04339 |
| .901 | -.040 | .00241 | -.01343 | .01045 | .09148 | .09348 | .03135 | .04212 |
| .900 | 2.014 | .00465 | .00771 | .01118 | .08782 | .09041 | .04980 | .04061 |
| .898 | 4.060 | .00229 | .02730 | .01384 | .08661 | .08917 | .04779 | .04139 |
| .900 | 6.117 | .00104 | .04639 | .01738 | .08666 | .08910 | .04536 | .04374 |
| .900 | 8.238 | .00053 | .06748 | .02088 | .08620 | .08839 | .04250 | .04589 |
| .900 | 10.207 | .00140 | .08840 | .02370 | .08615 | .08811 | .04016 | .04798 |
| GRADIENT | | .00086 | .01017 | .00070 | -.00119 | -.00110 | -.00041 | -.00070 |

RUN NO. 58/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .900 | -10.312 | -.00758 | -.11900 | -.00876 | .14246 | .14487 | .07460 | .07027 |
| .900 | -8.187 | -.00814 | -.09165 | -.00679 | .13396 | .13625 | .07348 | .06276 |
| .900 | -6.203 | -.00672 | -.06937 | -.00459 | .12758 | .12992 | .07186 | .05806 |
| .900 | -4.137 | -.00471 | -.04803 | -.00283 | .12709 | .12904 | .07206 | .05698 |
| .979 | -2.105 | .00056 | -.02548 | -.00009 | .12123 | .12349 | .07083 | .05266 |
| .979 | -.042 | .00473 | -.00481 | .00286 | .11684 | .11966 | .07025 | .04941 |
| .980 | 2.022 | .00515 | .01438 | .00756 | .11649 | .11955 | .07002 | .04953 |
| .979 | 4.067 | .00259 | .03304 | .01279 | .11611 | .11901 | .06819 | .05082 |
| .980 | 6.132 | .00148 | .05176 | .01824 | .11602 | .11950 | .06692 | .05258 |
| .979 | 8.182 | .00044 | .07338 | .02282 | .11612 | .11853 | .06413 | .05441 |
| .979 | 10.276 | .00242 | .09696 | .02774 | .11668 | .11886 | .06171 | .05715 |
| GRADIENT | | .00093 | .00964 | .00189 | -.00130 | -.00117 | -.00042 | -.00075 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

(B-8012) (13 MAY 74)

LRC 8 TPT 667 1A41 T1P1

REFERENCE DATA

SREF = 2690.0000 Sq.FT.
 LREF = 1290.3000 INCHES
 BREF = 1290.3000 INCHES
 SCALE = .5150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

| RUN NO. | 57/ 0 | RM/L = 2.10 | GRADIENT INTERVAL = -5.00/ 5.00 | CA | CAT | CAFT | CABT |
|----------|---------|-------------|---------------------------------|---------|---------|---------|---------|
| ALPHA | BETA | CN | CLW | CA | CAT | CAFT | CABT |
| -10.357 | -.00782 | -.12126 | -.01502 | .17429 | .17508 | .11358 | .06150 |
| -8.283 | -.00842 | -.09693 | -.01039 | .16926 | .17031 | .11174 | .05858 |
| -6.242 | -.00883 | -.07200 | -.00738 | .16548 | .16682 | .11052 | .05630 |
| -4.174 | -.00561 | -.04996 | -.00335 | .16048 | .16205 | .10836 | .05369 |
| -2.118 | .00012 | -.02706 | -.00041 | .15903 | .16052 | .10856 | .05196 |
| -.043 | .00509 | -.00646 | .00409 | .15668 | .15823 | .10885 | .04939 |
| 2.021 | .00505 | .01177 | .01011 | .15511 | .15670 | .10881 | .04789 |
| 4.079 | .00452 | .03385 | .01439 | .15494 | .15531 | .10778 | .04873 |
| 6.147 | .00222 | .05503 | .01929 | .15451 | .15617 | .10619 | .04998 |
| 8.244 | .00091 | .07947 | .02450 | .15363 | .15524 | .10390 | .05134 |
| 10.292 | .00219 | .10533 | .02890 | .15421 | .15573 | .10170 | .05403 |
| GRADIENT | .00122 | .01000 | .00223 | -.00073 | -.00072 | -.00004 | -.00068 |

| MACH | YAC/L |
|-------|----------|
| .599 | -.241528 |
| .799 | -.094673 |
| .899 | -.068880 |
| .980 | -.196444 |
| 1.201 | -.222927 |



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TABULATE SOURCE DATA, LARC 8F -667 (IA-41)

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LRC 8 "PT 667 1A41 T1P1

(808013) (13 MAY 74)

REFERENCE DATA

SREF = 2665.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0195 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 66/ 0 RN/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|--------|
| .600 | -10.330 | .11172 | .00880 | .00136 | .10292 | .10631 | .06226 | .04404 |
| .600 | -8.251 | .08323 | .01031 | .00097 | .09455 | .09770 | .05866 | .03904 |
| .600 | -6.196 | .05937 | .00964 | .00064 | .08784 | .09053 | .05552 | .03501 |
| .600 | -4.136 | .03765 | .00829 | .00037 | .08268 | .08533 | .05336 | .03497 |
| .600 | -2.062 | .01563 | .00633 | .00010 | .07674 | .07904 | .04637 | .03268 |
| .600 | -.005 | -.00647 | .00616 | -.00010 | .07339 | .07571 | .04272 | .03299 |
| .600 | 2.058 | -.02759 | .00383 | -.00033 | .06981 | .07155 | .03835 | .03320 |
| .599 | 4.120 | -.04719 | .00065 | -.00054 | .06786 | .06960 | .03392 | .03576 |
| .600 | 6.193 | -.06735 | -.00229 | -.00085 | .06659 | .06804 | .03007 | .03877 |
| .600 | 8.250 | -.09059 | -.00436 | -.00130 | .06509 | .06768 | .02513 | .04256 |
| .600 | 10.320 | -.11743 | -.00457 | -.00167 | .06359 | .06654 | .01961 | .04693 |
| GRADIENT | | -.01032 | -.00086 | -.00011 | -.00177 | -.00188 | -.00198 | .00010 |

RUN NO. 65/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|--------|
| .600 | -10.253 | .12101 | .00373 | .00140 | .11865 | .12164 | .07055 | .05109 |
| .601 | -8.180 | .09441 | .00302 | .00108 | .10944 | .11214 | .06617 | .04598 |
| .601 | -6.141 | .06905 | .00281 | .00073 | .09995 | .10250 | .06083 | .04166 |
| .600 | -4.095 | .04370 | .00394 | .00042 | .09210 | .09443 | .05405 | .04037 |
| .601 | -2.038 | .02154 | .00256 | .00011 | .08384 | .08584 | .04821 | .03763 |
| .600 | -.013 | -.00266 | .00322 | -.00011 | .08211 | .08393 | .04466 | .03927 |
| .600 | 2.042 | -.02534 | .00276 | -.00031 | .07411 | .07595 | .03827 | .03768 |
| .601 | 4.078 | -.04594 | .00015 | -.00057 | .07155 | .07388 | .03297 | .04092 |
| .600 | 6.129 | -.07027 | -.00134 | -.00089 | .07016 | .07278 | .02770 | .04508 |
| .799 | 8.189 | -.09688 | -.00104 | -.00132 | .06653 | .06924 | .02044 | .04890 |
| .600 | 10.225 | -.12536 | -.00111 | -.00173 | .06390 | .06667 | .01350 | .05317 |
| GRADIENT | | -.01107 | -.00036 | -.00012 | -.00248 | -.00250 | -.00255 | .00005 |

LRC 8 TPT 667 1A41 T1P1

(000013) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ-FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1230.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDLER = .000

RUN NO. 64/ 0 RML = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .900 | -10.291 | .13063 | .00116 | .00151 | .13101 | .13357 | .07504 | .05833 |
| .900 | -7.236 | .10164 | .00086 | .00113 | .12255 | .12480 | .07049 | .05431 |
| .900 | -6.176 | .07538 | .00008 | .00077 | .11370 | .11575 | .06657 | .04918 |
| .900 | -4.111 | .05085 | -.00024 | .00047 | .10389 | .10580 | .06084 | .04496 |
| .900 | -2.057 | .02536 | -.00007 | .00013 | .09593 | .09774 | .05557 | .04217 |
| .899 | -.014 | -.00031 | .00146 | -.00013 | .09241 | .09446 | .05242 | .04205 |
| .900 | 2.049 | -.02577 | .00257 | -.00032 | .08771 | .08959 | .04688 | .04270 |
| .900 | 4.114 | -.05101 | .00275 | -.00061 | .08508 | .08716 | .04258 | .04458 |
| .899 | 6.172 | -.07725 | .00257 | -.00098 | .08489 | .08729 | .03713 | .05017 |
| .900 | 8.214 | -.10527 | .00261 | -.00140 | .08314 | .08555 | .03135 | .05420 |
| .900 | 10.301 | -.13485 | .00203 | -.00183 | .08096 | .08332 | .02444 | .05958 |
| GRADIENT | | -.01245 | .00043 | -.00013 | -.00223 | -.00221 | -.00220 | -.00031 |

RUN NO. 63/ 0 RML = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .980 | -10.363 | .13522 | .00942 | .00151 | .16098 | .16303 | .09236 | .07064 |
| .981 | -8.282 | .10484 | .00662 | .00117 | .15316 | .15921 | .08931 | .06589 |
| .980 | -6.209 | .07792 | .00417 | .00083 | .14292 | .1496 | .08443 | .06053 |
| .980 | -4.143 | .05186 | .00294 | .00048 | .13211 | .13434 | .07874 | .05560 |
| .980 | -2.068 | .02692 | .00121 | .00013 | .12390 | .12607 | .07461 | .05146 |
| .980 | -.004 | -.00029 | .00153 | -.00011 | .11825 | .12106 | .07132 | .04974 |
| .979 | 2.069 | -.02653 | .00136 | -.00036 | .11492 | .11739 | .06674 | .05065 |
| .979 | 4.124 | -.05239 | .00040 | -.00063 | .11431 | .11677 | .06209 | .05468 |
| .979 | 6.181 | -.07805 | -.00153 | -.00102 | .11445 | .11705 | .05645 | .06060 |
| .979 | 8.268 | -.10705 | -.00392 | -.00141 | .11393 | .11622 | .05056 | .06356 |
| .979 | 10.349 | -.13792 | -.00652 | -.00176 | .11252 | .11449 | .04426 | .07023 |
| GRADIENT | | -.01267 | -.00024 | -.00013 | -.00216 | -.00212 | -.00199 | -.00013 |

TABULATED SOURCE DATA, LARC 8F7.-667 (1A-4)

(800013) (13 MAY 74)

LRC 8 TPT 667 1A41 T1P1

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2650.0000 SQ.FT.
LREF = 1290.3000 INCHES
BREF = 1290.3000 INCHES
SCALE = .0150 SCALE

QUN NO. 62/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|--------|
| 1.200 | -10.426 | .13710 | .01704 | .00165 | .19122 | .19244 | .12840 | .06403 |
| 1.201 | -8.337 | .10477 | .01398 | .00127 | .18355 | .18491 | .12384 | .06106 |
| 1.201 | -6.246 | .07516 | .01134 | .00087 | .17548 | .17684 | .12100 | .05584 |
| 1.202 | -4.155 | .04895 | .00854 | .00049 | .16698 | .16843 | .11596 | .05247 |
| 1.202 | -2.105 | .02552 | .00417 | .00020 | .16040 | .16188 | .11269 | .04919 |
| 1.202 | -.006 | .00225 | -.00011 | -.00007 | .15667 | .15846 | .10946 | .04900 |
| 1.202 | 2.032 | -.02215 | -.00306 | -.00039 | .15437 | .15596 | .10612 | .04984 |
| 1.201 | 4.153 | -.04713 | -.00665 | -.00066 | .15352 | .15510 | .10291 | .05219 |
| 1.201 | 6.227 | -.07505 | -.00879 | -.00103 | .15408 | .15545 | .09737 | .05808 |
| 1.200 | 8.322 | -.10612 | -.01167 | -.00146 | .15316 | .15445 | .09091 | .06355 |
| 1.200 | 10.422 | -.14122 | -.01293 | -.00192 | .15186 | .15299 | .08630 | .06670 |
| GRADIENT | | -.01154 | -.00181 | -.00014 | -.00158 | -.00157 | -.00157 | .00001 |

| MACH | YAC/L |
|-------|----------|
| .600 | -.063514 |
| .800 | -.032645 |
| .900 | .034466 |
| .980 | -.018824 |
| 1.200 | -.156804 |

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TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

(B40014) (13 MAY 74)

LRC 8 TPT 667 1A41 T1P1S1P2

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 1290.3000 INCHES
 BREF = 1290.3000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 71/ 0 RVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|--------|---------|--------|---------|
| .599 | -10.765 | -.00395 | -.38289 | .04158 | .16824 | .17062 | .05682 | .11360 |
| .599 | -8.623 | -.00478 | -.29379 | .03516 | .16869 | .17057 | .06116 | .10940 |
| .599 | -6.483 | -.00130 | -.23170 | .03332 | .16759 | .16961 | .06327 | .10634 |
| .599 | -4.360 | .00198 | -.17418 | .03267 | .16707 | .16919 | .06747 | .10173 |
| .599 | -2.210 | .00678 | -.11072 | .02983 | .16683 | .16880 | .07064 | .09817 |
| .599 | -.076 | .01081 | -.04603 | .02734 | .16666 | .16841 | .07193 | .09647 |
| .599 | 2.074 | .01017 | .02239 | .02393 | .16740 | .16897 | .07227 | .09670 |
| .599 | 4.232 | .00635 | .08965 | .02031 | .16679 | .16818 | .06940 | .09878 |
| .600 | 6.376 | .00307 | .15470 | .01706 | .16676 | .16813 | .06676 | .10136 |
| .599 | 8.503 | .00327 | .21736 | .01442 | .16732 | .16900 | .06132 | .10768 |
| .599 | 10.648 | .00366 | .29065 | .00900 | .16748 | .16909 | .05534 | .11355 |
| GRADIENT | | .00036 | .03078 | -.00143 | .00000 | -.00009 | .00026 | -.00034 |

RUN NO. 70/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|--------|---------|
| .799 | -10.385 | -.00331 | -.37959 | .05274 | .18136 | .18310 | .06674 | .11637 |
| .799 | -8.471 | -.00306 | -.30389 | .04431 | .18059 | .18233 | .07082 | .11171 |
| .799 | -6.376 | -.00175 | -.23817 | .04004 | .17969 | .18140 | .07410 | .10730 |
| .799 | -4.282 | -.00021 | -.17617 | .03397 | .17857 | .18020 | .07772 | .10249 |
| .800 | -2.178 | .00195 | -.11579 | .02885 | .17777 | .17927 | .08136 | .09791 |
| .823 | -.074 | .00546 | -.04558 | .02471 | .17675 | .17798 | .08264 | .09535 |
| .799 | 2.074 | .00374 | .03216 | .02136 | .17836 | .17930 | .08251 | .09679 |
| .799 | 4.161 | .00374 | .09720 | .01379 | .17698 | .17776 | .07931 | .09845 |
| .799 | 6.279 | .00284 | .16765 | .00707 | .17749 | .17820 | .07566 | .10254 |
| .799 | 8.374 | .00284 | .23336 | .00293 | .17699 | .17779 | .06985 | .10794 |
| .799 | 10.502 | .00260 | .31113 | -.00523 | .17669 | .17749 | .06397 | .11352 |
| GRADIENT | | .00052 | .03287 | -.00226 | -.00012 | -.00023 | .00020 | -.00043 |

DATE 10 JUL 74

TABULATED SOURCE DATA, LARG 8° -55' (IA-41)

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LRC 8 TPT 667 IA41 TIPS1P2

(090514) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. DRIP = 976.0000 INCHES
 LREF = 1290.3000 INCHES PRIP = .0000 INCHES
 BREF = 1290.3000 INCHES ZREF = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 FUDDER = .000

RUN NO. 69/ 0 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLW | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|--------|--------|--------|---------|
| .901 | -10.702 | -.00496 | -.39981 | .05712 | .19902 | .20044 | .07784 | .12321 |
| .901 | -8.541 | -.00391 | -.31990 | .04658 | .19855 | .19993 | .08104 | .11890 |
| .900 | -6.460 | -.00334 | -.24618 | .03967 | .19715 | .19842 | .08457 | .11356 |
| .901 | -4.335 | -.00229 | -.18064 | .02552 | .19433 | .19519 | .08791 | .10728 |
| .901 | -2.206 | .00161 | -.11195 | .01866 | .19365 | .19424 | .09164 | .10260 |
| .901 | -.081 | .00489 | -.03710 | .01203 | .19301 | .19357 | .09255 | .10102 |
| .900 | 2.066 | .00396 | .04133 | .00930 | .19323 | .19383 | .09194 | .10190 |
| .900 | 4.214 | .00303 | .11904 | .00242 | .19611 | .19664 | .08970 | .10694 |
| .900 | 6.326 | .00152 | .18839 | -.00768 | .19570 | .19513 | .08436 | .11177 |
| .900 | 8.431 | .00112 | .25857 | -.01361 | .19596 | .19649 | .08032 | .11517 |
| .901 | 10.585 | .00277 | .34231 | -.02280 | .19485 | .19537 | .07283 | .12233 |
| GRADIENT | | .00061 | .03322 | -.00260 | .00015 | .00012 | .00018 | -.00006 |

RUN NO. 68/ 0 RNL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLW | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|--------|--------|--------|---------|
| .980 | -10.823 | -.00131 | -.39158 | .02332 | .23063 | .23208 | .09707 | .13501 |
| .981 | -8.654 | -.00373 | -.30105 | .01383 | .23150 | .23277 | .10354 | .12923 |
| .981 | -6.503 | -.00407 | -.22574 | .01305 | .23209 | .23335 | .10964 | .12371 |
| .981 | -4.351 | -.00277 | -.19966 | .01252 | .22942 | .23049 | .11337 | .11712 |
| .981 | -2.217 | .00131 | -.09079 | .00696 | .22693 | .22765 | .11516 | .11248 |
| .981 | -.080 | .00329 | -.01851 | .00007 | .22870 | .22908 | .11802 | .11106 |
| .981 | 2.086 | .00384 | .05325 | .00028 | .22883 | .22925 | .11751 | .11175 |
| .980 | 4.213 | .00398 | .12865 | -.00567 | .22931 | .22970 | .11429 | .11541 |
| .981 | 6.364 | .00358 | .20264 | -.01256 | .23067 | .23124 | .10938 | .12187 |
| .980 | 8.510 | .00444 | .27345 | -.01519 | .23091 | .23168 | .10367 | .12801 |
| .978 | 10.687 | .00786 | .36061 | -.02241 | .22875 | .22957 | .09496 | .13461 |
| GRADIENT | | .00075 | .03363 | -.00201 | .00008 | .00000 | .00020 | -.00019 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 6FT.-667 (IIA-41)

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080014) (13 MAY 74)

LRC 8 TPT 667 IAA1 TIPISIP2

REFERENCE DATA

SREF = 2890.0000 50-FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 TREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 67/ 0 R/V/L = 2.12 GRADIENT INTERVAL = -5.00/ 5.00

| WACH | ALPHA | BETA | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|--------|---------|
| 1.200 | -11.031 | .00039 | .02520 | .28168 | .28320 | .14916 | .13404 |
| 1.202 | -6.811 | -.00149 | .01428 | .27992 | .28119 | .15525 | .12794 |
| 1.203 | -6.624 | -.00466 | .01503 | .27994 | .28113 | .15874 | .12239 |
| 1.202 | -4.412 | -.00396 | .01610 | .27869 | .28018 | .16099 | .11820 |
| 1.202 | -2.249 | -.00031 | .01408 | .27868 | .27956 | .15281 | .11675 |
| 1.202 | -.092 | .00369 | .00839 | .27903 | .27978 | .16301 | .11677 |
| 1.202 | 2.103 | .00280 | .00438 | .27795 | .27876 | .16298 | .11578 |
| 1.201 | 4.291 | .00174 | .00141 | .27856 | .27931 | .16193 | .11737 |
| 1.201 | 6.443 | -.00055 | -.00544 | .27926 | .28012 | .16108 | .11904 |
| 1.201 | 8.660 | -.00289 | .00844 | .27929 | .28027 | .15816 | .12212 |
| 1.201 | 10.885 | -.00173 | -.01442 | .27724 | .27822 | .15262 | .12560 |
| GRADIENT | | .00066 | -.00205 | -.00006 | -.00012 | .00009 | -.00021 |

| WACH | XAC/L |
|-------|---------|
| .999 | .046344 |
| .799 | .068815 |
| .901 | .075820 |
| .980 | .059714 |
| 1.200 | .058737 |

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

(B88015) (13 MAY 74)

LRC 8 TPT 667 IA41 T1P1S1P2

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0130 SCALE

| RUN NO. | | 76/ 0 | RVL = 3.18 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|---------|---------|------------|---------------------------------|---------|
| MACH | BETA | CY | CYN | CBL | CA |
| .601 | -10.230 | .10358 | .00015 | .00016 | .17786 |
| .599 | -8.239 | .08167 | -.00059 | .00008 | .17433 |
| .599 | -6.071 | .06053 | -.00158 | -.00023 | .17077 |
| .599 | -4.099 | .04100 | -.00201 | -.00077 | .16860 |
| .599 | -1.885 | .01971 | -.00188 | -.00102 | .16776 |
| .599 | -.009 | .00029 | -.00064 | -.00078 | .16738 |
| .599 | 2.062 | -.02133 | .00098 | -.00033 | .16662 |
| .599 | 4.113 | -.04279 | .00222 | .00001 | .16722 |
| .599 | 6.161 | -.06641 | .00308 | .00044 | .16975 |
| .600 | 8.250 | -.08876 | .00299 | .00065 | .17384 |
| .599 | 10.233 | -.11393 | .00355 | .00092 | .17751 |
| GRADIENT | | -.01024 | .00055 | .00011 | -.00019 |
| | | CAT | CAFT | CABT | |
| | | .17991 | .06830 | .11161 | |
| | | .17598 | .06924 | .10674 | |
| | | .17212 | .06976 | .10237 | |
| | | .16987 | .06963 | .10024 | |
| | | .16908 | .07066 | .09842 | |
| | | .16903 | .07222 | .09682 | |
| | | .16936 | .07364 | .09492 | |
| | | .16919 | .07486 | .09433 | |
| | | .17149 | .07673 | .09476 | |
| | | .17546 | .07912 | .09634 | |
| | | .17916 | .08184 | .09732 | |
| | | -.00009 | .00066 | -.00075 | |

| RUN NO. | | 75/ 0 | RVL = 1.89 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|---------|----------|---------|------------|---------------------------------|---------|
| MACH | BETA | CY | CYN | CBL | CA |
| .800 | -10.210 | .11700 | -.00615 | -.00155 | .18824 |
| .800 | -8.093 | .09167 | -.00558 | -.00123 | .18369 |
| .800 | -6.079 | .06934 | -.00560 | -.00118 | .18071 |
| .801 | -4.079 | .04771 | -.00520 | -.00128 | .17854 |
| .801 | -2.010 | .02516 | -.00351 | -.00128 | .17686 |
| .800 | .099 | .00181 | -.00105 | -.00086 | .17657 |
| .800 | 2.038 | -.02174 | .00164 | -.00015 | .17642 |
| .800 | 4.239 | -.04603 | .00371 | .00066 | .17697 |
| .800 | 6.132 | -.07080 | .00566 | .00109 | .17963 |
| .800 | 8.148 | -.09636 | .00716 | .00155 | .18331 |
| .800 | 10.247 | -.12454 | .00891 | .00185 | .18719 |
| .799 | GRADIENT | -.01133 | .00111 | .00024 | -.00017 |
| | | CAT | CAFT | CABT | |
| | | .18910 | .07641 | .11269 | |
| | | .18432 | .07857 | .10575 | |
| | | .18134 | .07920 | .10214 | |
| | | .17930 | .07944 | .09986 | |
| | | .17785 | .07966 | .09819 | |
| | | .17775 | .08207 | .09568 | |
| | | .17772 | .08397 | .09375 | |
| | | .17825 | .08550 | .09275 | |
| | | .18081 | .08719 | .09362 | |
| | | .18455 | .09015 | .09440 | |
| | | .18856 | .09219 | .09637 | |
| | | -.00011 | .00079 | -.00090 | |

STABILIZED SOURCE DATA: LARC 8FT.-667 (1A-41)

DATE 12 JUL 74

(BAGB015) (13 MAY 74)

ARC 8 TPT 667 1A41 T1P1S1P2

PARAMETRIC DATA

| | | | |
|---------|------|----------|------|
| ALPHA = | .000 | RUDDER = | .000 |
|---------|------|----------|------|

REFERENCE DATA

| | | | | | |
|---------|-----------|--------|--------|----------|--------|
| SREF = | 2690.0000 | SA.FT. | YARP = | 976.0000 | INCHES |
| LEAF = | 1290.3000 | INCHES | YARP = | .0000 | INCHES |
| BREF = | 1290.3000 | INCHES | ZARP = | 400.0000 | INCHES |
| SCALE = | .0150 | SCALE | | | |

| RUN NO. | 74/ 0 | RV/L = 1.99 | GRADIENT INTERVAL = -5.00/ 5.00 | CAT | CAFT | CABT |
|----------|---------|-------------|---------------------------------|---------|---------|---------|
| BETA | | CYN | CBL | CA | | |
| -10.303 | .13076 | -.00647 | -.00226 | .20609 | .20715 | .12031 |
| -8.225 | .10444 | -.00842 | -.00179 | .20472 | .20483 | .11508 |
| -6.035 | .07640 | -.00789 | -.00164 | .19966 | .19979 | .11021 |
| -3.984 | .03167 | -.00661 | -.00155 | .19633 | .19658 | .10710 |
| -1.958 | .02699 | -.00383 | -.00130 | .19299 | .19341 | .10408 |
| -.002 | .00103 | -.00223 | -.00042 | .19282 | .19331 | .10139 |
| 2.063 | -.02464 | .00382 | .00046 | .19298 | .19356 | .09982 |
| 4.101 | -.05062 | .00688 | .00131 | .19511 | .19563 | .09940 |
| 6.195 | -.07708 | .00856 | .00186 | .19815 | .19870 | .09941 |
| 8.254 | -.10339 | .00992 | .00223 | .20158 | .20240 | .10073 |
| 10.256 | -.13340 | .01084 | .00248 | .20463 | .20590 | .10189 |
| GRADIENT | -.01269 | .00172 | .00037 | -.00012 | -.00008 | -.00097 |

| RUN NO. | 73/ 0 | RVL = | 2.04 | GRADIENT | INTERVAL = | -5.00/ | 5.00 | CAT | CAFT | CABT |
|---------|---------|---------|---------|----------|------------|--------|---------|-----|------|------|
| BETA | | | | | | | | | | |
| -10.299 | .14513 | -.01175 | -.00226 | .24442 | .24452 | .10766 | .13696 | | | |
| -8.209 | .11456 | -.01098 | -.00204 | .24206 | .24291 | .11118 | .13175 | | | |
| -6.143 | .08606 | -.01030 | -.00182 | .23871 | .23882 | .11400 | .12482 | | | |
| -4.003 | .05836 | -.00825 | -.00153 | .23330 | .23358 | .11450 | .11908 | | | |
| -2.047 | .03018 | -.00457 | -.00096 | .22998 | .23033 | .11561 | .11471 | | | |
| -.003 | .00249 | -.00037 | -.00017 | .22858 | .22889 | .11774 | .11116 | | | |
| 2.061 | -.02949 | .00602 | .00062 | .22975 | .23006 | .12059 | .10947 | | | |
| 4.149 | -.05809 | .00922 | .00152 | .23260 | .23293 | .12322 | .10970 | | | |
| 6.171 | -.08824 | .01090 | .00212 | .23597 | .23629 | .12613 | .11017 | | | |
| 8.271 | -.11717 | .01212 | .00235 | .24001 | .24039 | .12990 | .11048 | | | |
| 10.301 | -.14881 | .01379 | .00251 | .24219 | .24284 | .13147 | .11138 | | | |
| 10.301 | -.01433 | .00223 | .00059 | -.00007 | -.00007 | .00110 | -.00117 | | | |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 6FT.-667 (IA-41)

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LRC 6 TPT 667 IAA1 TIP1S1P2

(800015) (13 MAY 74)

REFERENCE DATA

SREF = 2890.0000 31.71. XMRP = 376.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 72/ 0 RN/L = 2. GRADIENT INTERVAL = -5.00/ 5.00

| MACH | BETA | CY | CYN | CBL | CA | CAT | CFT | CABT |
|-------|----------|---------|---------|---------|--------|--------|--------|---------|
| 1.201 | -10.361 | .14579 | -.00198 | -.00231 | .29519 | .29532 | .16122 | .13410 |
| 1.201 | -8.323 | .11522 | -.00327 | -.00185 | .29099 | .29116 | .16172 | .12945 |
| 1.201 | -6.176 | .08637 | -.00538 | -.00162 | .28627 | .28635 | .15935 | .12721 |
| 1.201 | -4.136 | .05880 | -.00680 | -.00132 | .28286 | .28330 | .15951 | .12379 |
| 1.201 | -2.047 | .03015 | -.00426 | -.00091 | .28063 | .28126 | .15894 | .12232 |
| 1.200 | .017 | .00166 | -.00043 | -.00012 | .27902 | .27966 | .16117 | .11849 |
| 1.201 | 2.071 | -.02926 | .00514 | .00075 | .28054 | .28097 | .16774 | .11323 |
| 1.201 | 4.182 | -.05877 | .00788 | .00132 | .28367 | .28395 | .17296 | .11099 |
| 1.200 | 6.249 | -.08786 | .00956 | .00177 | .28622 | .28640 | .17635 | .10986 |
| 1.201 | 8.275 | -.11741 | .00691 | .00208 | .29088 | .29105 | .18120 | .10985 |
| 1.200 | 10.372 | -.15060 | .00535 | .00220 | .29467 | .29498 | .18273 | .11226 |
| | GRADIENT | -.01419 | .00187 | .00033 | .00007 | .00005 | .00172 | -.00167 |

| MACH | YAC/L |
|-------|---------|
| .601 | .054081 |
| .800 | .097941 |
| .899 | .135173 |
| .979 | .155625 |
| 1.201 | .131539 |

LRC 8 TPT 667 IA41 TPI5IP201

(048016) (13 MAY 74)

REFERENCE DATA

REF = 2690.0000 SQ.FT. WARP = 976.0000 INCHES
 LREF = 1290.3000 INCHES WARP = .0000 INCHES
 BREF = 1290.3000 INCHES WARP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 61/ 0 RVL = 5.17 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .599 | -11.970 | 5.29994 | -.80148 | .19274 | .26940 | .26973 | .07527 | .19446 |
| .599 | -9.716 | 5.33982 | -.63595 | .13077 | .27130 | .27183 | .08337 | .18845 |
| .600 | -7.590 | 5.37018 | -.51290 | .07277 | .27138 | .27192 | .09147 | .18045 |
| .598 | -5.170 | 5.39557 | -.36367 | .02211 | .27092 | .27143 | .09760 | .17383 |
| .595 | -2.858 | 5.41593 | -.25871 | -.02369 | .26919 | .26968 | .10150 | .16818 |
| .599 | -.638 | 5.42859 | -.14188 | -.06369 | .26697 | .26756 | .10303 | .16453 |
| .599 | 1.628 | 5.44611 | -.02559 | -.10444 | .26245 | .26316 | .09983 | .16333 |
| .600 | 3.920 | 5.43593 | .09825 | -.14531 | .25524 | .25617 | .09259 | .16357 |
| .600 | 6.262 | 5.41030 | .22848 | -.18595 | .24924 | .24669 | .08205 | .16464 |
| .598 | 8.520 | 5.37524 | .35418 | -.22797 | .23221 | .23403 | .06884 | .16519 |
| .600 | 10.751 | 5.33684 | .49378 | -.27839 | .21780 | .21971 | .05342 | .16430 |
| GRADIENT | | .00342 | .05253 | -.01783 | -.00206 | -.00199 | -.00133 | -.00066 |

RUN NO. 60/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .799 | -11.564 | 5.20823 | -.77384 | .16091 | .29449 | .29424 | .10077 | .19347 |
| .601 | -9.300 | 5.25342 | -.62069 | .09882 | .29218 | .29196 | .10557 | .18639 |
| .601 | -7.035 | 5.28341 | -.47903 | .04358 | .28929 | .28912 | .10969 | .17943 |
| .601 | -4.874 | 5.30589 | -.34811 | -.00704 | .28794 | .28777 | .11584 | .17193 |
| .600 | -2.635 | 5.32133 | -.22732 | -.05164 | .28451 | .28441 | .11817 | .16824 |
| .600 | -.901 | 5.33637 | -.11002 | -.09446 | .28209 | .28211 | .11944 | .16267 |
| .799 | 1.745 | 5.34063 | .00787 | -.13592 | .27586 | .27598 | .11352 | .16045 |
| .600 | 4.034 | 5.33141 | .14172 | -.18081 | .26859 | .26883 | .10645 | .16237 |
| .600 | 6.130 | 5.31327 | .26557 | -.22329 | .26508 | .26532 | .10066 | .16486 |
| .799 | 8.339 | 5.28265 | .39568 | -.27489 | .26163 | .26207 | .09614 | .16593 |
| .600 | 10.518 | 5.25655 | .52123 | -.32518 | .26201 | .26232 | .09571 | .16661 |
| GRADIENT | | .00315 | .05474 | -.01945 | -.00223 | -.00218 | -.00106 | -.00112 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (IA-41)

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LRC 8 TPT 667 IA41 T1P1S1P201

(08016) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 1290.3000 INCHES
BREF = 1290.3000 INCHES
SCALE = .0150 SCALE

WARP = 976.0000 INCHES
TWARP = .0000 INCHES
ZWARP = 400.0000 INCHES

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 79/ 0 RIN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .900 | -11.806 | 5.29382 | -.81420 | .15756 | .32659 | .32654 | .12254 | .20400 |
| .902 | -9.505 | 5.33937 | -.64080 | .08349 | .32377 | .32357 | .12778 | .19579 |
| .901 | -7.254 | 5.36785 | -.47927 | .01549 | .32141 | .32122 | .13282 | .18840 |
| .901 | -5.013 | 5.38571 | -.33123 | -.04479 | .32130 | .32109 | .13790 | .18319 |
| .900 | -.747 | 5.39631 | -.19368 | -.09656 | .31929 | .31910 | .14028 | .17883 |
| .901 | -.514 | 5.40877 | -.06242 | -.14510 | .31593 | .31574 | .14057 | .17517 |
| .901 | 1.757 | 5.41327 | .07080 | -.19718 | .31204 | .31194 | .13732 | .17462 |
| .900 | 3.954 | 5.40630 | .19278 | -.24268 | .30852 | .30863 | .13280 | .17563 |
| .901 | 6.212 | 5.39118 | .32033 | -.28186 | .30510 | .30522 | .12653 | .17869 |
| .920 | 8.457 | 5.36920 | .44847 | -.33544 | .30498 | .30518 | .12452 | .18066 |
| .901 | 10.672 | 5.33451 | .56940 | -.37665 | .30273 | .30272 | .12287 | .17985 |
| GRADIENT | | .00155 | .05778 | -.02192 | -.00162 | -.00157 | -.00115 | -.00043 |

RUN NO. 78/ 0 RIN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|--------|
| .979 | -12.251 | 5.39700 | -.85083 | .14611 | .40529 | .40617 | .16694 | .23922 |
| .980 | -9.805 | 5.41766 | -.69324 | .06567 | .40678 | .40711 | .17521 | .23190 |
| .980 | -7.473 | 5.43287 | -.52333 | -.00090 | .40699 | .40702 | .18087 | .22615 |
| .979 | -5.219 | 5.44385 | -.37855 | -.05630 | .40723 | .40706 | .18677 | .22029 |
| .980 | -2.874 | 5.44700 | -.23276 | -.10786 | .40620 | .40601 | .19022 | .21579 |
| .979 | -.626 | 5.45684 | -.09082 | -.16048 | .40595 | .40583 | .18873 | .21710 |
| .979 | 1.677 | 5.45318 | .05661 | -.22036 | .40596 | .40589 | .18605 | .21984 |
| .980 | 3.919 | 5.44855 | .19071 | -.27675 | .40467 | .40464 | .18142 | .22322 |
| .980 | 6.220 | 5.42515 | .33637 | -.33459 | .40382 | .40100 | .17271 | .22829 |
| .980 | 8.480 | 5.39014 | .46819 | -.38505 | .39712 | .39719 | .16534 | .23185 |
| .980 | 10.702 | 5.35732 | .59561 | -.42990 | .39232 | .39261 | .15980 | .23281 |
| GRADIENT | | .00004 | .06250 | -.02498 | -.00020 | -.00018 | -.00128 | .00110 |

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

(080016) (13 MAY 74)

LRC 8 TPT 667 1A41 TIP1S1P201

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

REFERENCE DATA

SRF = 2695.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BRF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

| RUN NO. | 77/ 0 | RVL = 2.11 | GRADIENT INTERVAL = -5.60/ 5.00 | CA | CAT | CAFT | CABT |
|---------|---------|------------|---------------------------------|---------|---------|---------|--------|
| ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
| -10.820 | 5.50401 | -.70698 | .06337 | .45953 | .45970 | .25548 | .20422 |
| -10.161 | 5.50405 | -.73630 | .04499 | .45892 | .45908 | .25609 | .20299 |
| -7.799 | 5.49673 | -.54735 | -.02840 | .45674 | .45676 | .25980 | .19696 |
| -5.442 | 5.49963 | -.38312 | -.08840 | .45340 | .45328 | .26323 | .19005 |
| -3.052 | 5.50505 | -.22150 | -.14792 | .44933 | .44917 | .26586 | .18331 |
| -.696 | 5.51398 | -.06887 | -.20225 | .44638 | .44625 | .26594 | .18032 |
| 1.621 | 5.52158 | .07386 | -.25601 | .44661 | .44655 | .26163 | .18492 |
| 3.987 | 5.51798 | .21072 | -.30839 | .44009 | .44013 | .25320 | .18692 |
| 6.277 | 5.49864 | .34934 | -.35784 | .43268 | .43270 | .24497 | .18773 |
| 8.605 | 5.45908 | .48718 | -.40698 | .42415 | .42422 | .23712 | .18709 |
| 10.996 | 5.44886 | .61533 | -.44500 | .41740 | .41754 | .23134 | .18620 |
| | | .00196 | -.02284 | -.00117 | -.00115 | -.00180 | .00066 |

WACH XAC/L
 .599 .339425
 .799 .335384
 .900 .379438
 .979 .399649
 1.201 .371803

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 T1P1S1P201

(B08C17) (13 MAY 74)

REFERENCE DATA

SHEF = 2690.0000 SQ.FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0155 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = -20.000

RUN NO. 86/ 0 RNL = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .600 | -11.864 | 5.31337 | -.81345 | .20129 | .28421 | .28434 | .08476 | .19958 |
| .600 | -9.450 | 5.35335 | -.65819 | .13505 | .28595 | .28602 | .09303 | .19300 |
| .599 | -7.210 | 5.38462 | -.50907 | .07316 | .28664 | .28667 | .10146 | .18521 |
| .600 | -4.971 | 5.40819 | -.38205 | .02381 | .28599 | .28600 | .10722 | .17878 |
| .600 | -2.648 | 5.42874 | -.25303 | -.02358 | .28419 | .28421 | .11137 | .17284 |
| .600 | -.408 | 5.45039 | -.14091 | -.06390 | .28218 | .28234 | .11217 | .17017 |
| .599 | 1.892 | 5.45422 | -.02275 | -.10368 | .27716 | .27746 | .10858 | .16888 |
| .600 | 4.124 | 5.44359 | -.10020 | -.14364 | .27011 | .27052 | .10169 | .16883 |
| .599 | 6.359 | 5.41564 | .22350 | -.18190 | .25985 | .26082 | .09018 | .17064 |
| .599 | 8.711 | 5.38083 | .35519 | -.22605 | .24547 | .24673 | .07749 | .16925 |
| .599 | 10.960 | 5.34078 | .49959 | -.27788 | .23039 | .23171 | .06348 | .16823 |
| GRADIENT | | .00425 | .05257 | -.01826 | -.00170 | -.00166 | -.00061 | -.00105 |

RUN NO. 85/ 0 RNL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .799 | -11.393 | 5.21820 | -.78060 | .16903 | .30933 | .30899 | .11095 | .19804 |
| .801 | -9.070 | 5.26490 | -.62806 | .10727 | .30738 | .30703 | .11524 | .19179 |
| .800 | -6.902 | 5.29200 | -.48459 | .05038 | .30544 | .30513 | .12039 | .18474 |
| .799 | -4.723 | 5.31251 | -.35541 | .00074 | .30375 | .30347 | .12627 | .17720 |
| .798 | -2.466 | 5.32727 | -.22847 | -.04633 | .30008 | .29980 | .12888 | .17092 |
| .799 | -.260 | 5.33983 | -.11019 | -.08941 | .29715 | .29697 | .12880 | .16817 |
| .799 | 1.893 | 5.34736 | .00823 | -.13294 | .28971 | .28953 | .12408 | .16544 |
| .798 | 4.093 | 5.35509 | .13618 | -.17480 | .28448 | .28435 | .11690 | .16835 |
| .799 | 6.353 | 5.31407 | .26875 | -.22191 | .27908 | .27912 | .10845 | .17066 |
| .800 | 8.541 | 5.28421 | .39905 | -.27284 | .27619 | .27626 | .10628 | .16998 |
| .799 | 10.756 | 5.25355 | .52092 | -.32036 | .27580 | .27587 | .10505 | .17582 |
| GRADIENT | | .00282 | .05547 | -.01990 | -.00222 | -.00220 | -.00115 | -.00106 |

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

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LRC 8 TPT 667 1A41 T1P1S1P201

W88017) (13 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = -20.000

RUN NO. 84/ 0 RVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| .900 | -11.600 | 5.30306 | -.61889 | .16316 | .34116 | .34102 | .13344 | .20758 |
| .900 | -9.352 | 5.34349 | -.64344 | .09037 | .33873 | .33857 | .13846 | .20010 |
| .900 | -7.005 | 5.37266 | -.47580 | .01870 | .33670 | .33657 | .14364 | .19493 |
| .900 | -4.832 | 5.38882 | -.33466 | -.03823 | .33785 | .33777 | .14810 | .18967 |
| .900 | -2.553 | 5.40100 | -.19283 | -.09290 | .33580 | .33571 | .15139 | .18432 |
| .900 | -.324 | 5.41174 | -.06423 | -.14011 | .33171 | .33161 | .14982 | .18179 |
| .900 | 1.926 | 5.41293 | .06850 | -.19194 | .32828 | .32824 | .14813 | .18011 |
| .899 | 4.094 | 5.40484 | .19148 | -.23704 | .32181 | .32195 | .14004 | .18191 |
| .900 | 6.423 | 5.38930 | .31982 | -.27728 | .31967 | .31978 | .13547 | .18432 |
| .899 | 8.564 | 5.37008 | .44355 | -.32902 | .31815 | .31843 | .13336 | .18508 |
| .899 | 10.863 | 5.33014 | .56946 | -.37106 | .31465 | .31482 | .13076 | .18406 |
| GRADIENT | | .00198 | .05883 | -.02226 | -.00177 | -.00175 | -.00086 | -.00089 |

RUN NO. 83/ 0 RVL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

| MACH | ALPHA | BETA | CN | CLM | CA | CAT | CAFT | CABT |
|----------|---------|---------|---------|---------|---------|---------|---------|--------|
| .979 | -11.925 | 5.40456 | -.87543 | .14577 | .42095 | .42197 | .17897 | .24300 |
| .981 | -9.654 | 5.42639 | -.69501 | .07132 | .42393 | .42447 | .18771 | .23676 |
| .979 | -7.226 | 5.43723 | -.51988 | .00381 | .42258 | .42277 | .19157 | .23119 |
| .980 | -4.928 | 5.44702 | -.36863 | -.05464 | .42335 | .42336 | .19854 | .22482 |
| .980 | -2.653 | 5.45096 | -.22989 | -.10440 | .42411 | .42409 | .20126 | .22283 |
| .981 | -.406 | 5.45936 | -.08636 | -.15922 | .42464 | .42457 | .20165 | .22292 |
| .979 | 1.892 | 5.44358 | .05894 | -.21822 | .42185 | .42166 | .19489 | .22677 |
| .979 | 4.192 | 5.44463 | .20384 | -.27882 | .41658 | .41650 | .18879 | .22771 |
| .979 | 5.468 | 5.42191 | .34008 | -.33229 | .41513 | .41503 | .18246 | .23257 |
| .979 | 8.673 | 5.38724 | .47545 | -.38468 | .40779 | .40772 | .17286 | .23486 |
| .976 | 10.957 | 5.35318 | .60350 | -.42817 | .40241 | .40237 | .16752 | .23485 |
| GRADIENT | | -.00028 | .06293 | -.02466 | -.00070 | -.00071 | -.00114 | .00043 |

TABULATED SOURCE DATA, LARC 8FT.-38T (1A-41)

0806017) (13 MAY 74

LRC / TPT 667 1A41 TIP151F201

PARAMETRIC DATA

BETA = 5.000 RUDDER = -20.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 INCHES
LREF = 1290.3000 INCHES YREF = .0000 INCHES
BREF = 1290.3000 INCHES ZREF = 400.0000 INCHES
SCALE = .0150 SCALE

| RUN NO. | | 82/ 0 | RN/L = 2.11 | GRADIENT INTERVAL = -5.00/ 5.00 | |
|----------|---------|---------|-------------|---------------------------------|---------|
| MACH | ALPHA | BETA | CN | CLM | CA |
| 1.200 | -10.919 | 5.50664 | -.79537 | .07645 | .46593 |
| 1.201 | -9.979 | 5.50443 | -.72109 | .04600 | .46507 |
| 1.202 | -7.557 | 5.49986 | -.53574 | -.02590 | .46280 |
| 1.201 | -5.214 | 5.50059 | -.37309 | -.08593 | .46017 |
| 1.201 | -2.832 | 5.50846 | -.21488 | -.14457 | .45634 |
| 1.201 | -.469 | 5.51766 | -.06141 | -.20121 | .45566 |
| 1.201 | 1.915 | 5.52271 | .08486 | -.25692 | .45612 |
| 1.201 | 4.134 | 5.52164 | .21489 | -.30722 | .44974 |
| 1.201 | 6.438 | 5.49508 | .35139 | -.35609 | .44172 |
| 1.201 | 8.748 | 5.45746 | .48970 | -.40494 | .43312 |
| 1.201 | 11.084 | 5.44652 | .61829 | -.44169 | .42597 |
| GRADIENT | | .00193 | .06168 | -.02336 | -.00082 |
| | | | | | -.00081 |
| | | | | | .45600 |
| | | | | | .44966 |
| | | | | | .44158 |
| | | | | | .43299 |
| | | | | | .42554 |
| | | | | | .42583 |
| | | | | | -.00190 |
| | | | | | .26674 |
| | | | | | .25894 |
| | | | | | .25056 |
| | | | | | .24254 |
| | | | | | .23652 |
| | | | | | .18931 |
| | | | | | .18265 |
| | | | | | .18446 |
| | | | | | .19048 |
| | | | | | .19563 |
| | | | | | .20252 |
| | | | | | .20531 |

| MACH | XAC/L |
|-------|---------|
| .600 | .347383 |
| .799 | .358826 |
| .900 | .378409 |
| .979 | .391864 |
| 1.200 | .378655 |